

*1a02*  
**WHAT IS CLAIMED IS:**

1. Material capable of forming clear, concentrated, biodegradable, fabric softener compositions, said material being selected from the group consisting of:
  - A. compound selected from the group consisting of:  
1,2-butanediol, 2,3,3-trimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 1,2-butanediol, 2,3,3-trimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 4-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 5-methyl-; 2,4-heptanediol, 5-methyl-; 2,5-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 2,6-octanediol; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-

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hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; 2,5-hexanediol, 3,3,5-trimethyl-;

B. ether solvent selected from the group consisting of: 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amylloxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amylloxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol, 3-(butyloxy)-, dibutyleneoxylated; and 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated; bis(2-hydroxybutyl)ether, and bis(2-hydroxycyclopentyl)ether;

C. compounds which are homologs, or analogs, of the following compounds in which each homolog, or analog, contains at least one additional  $\text{CH}_2$  group and the total number of hydrogen atoms is kept the same by inserting one double bond for each additional  $\text{CH}_2$  group:

- I. n-propanol;
- II. 2-butanol and/or 2-methyl-2-propanol;
- III. 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pantanediol, 2-methyl-; 2,3-pantanediol, 3-methyl-; 2,3-pantanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pantanediol, 2-methyl-; 1,2-pantanediol, 3-methyl-; 1,2-pantanediol, 4-methyl-; and/or 1,2-hexanediol;
- IV. 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pantanediol, 2,2-dimethyl-; 1,5-pantanediol, 2,3-dimethyl-; 1,5-pantanediol, 2,4-dimethyl-; 1,5-pantanediol, 3,3-dimethyl-; 2,3-pantanediol, 2,3-dimethyl-; 2,3-pantanediol, 2,4-dimethyl-; 2,3-pantanediol, 3,4-dimethyl-; 2,3-pantanediol, 4,4-dimethyl-; 3,4-pantanediol, 2,3-dimethyl-; 1,5-pantanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-

methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-; heptanediol; 1,5-heptanediol; and/or 1,6-heptanediol;

V. 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-butyl-2-methyl-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3-propyl-; 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-; 1,3-pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 1,5-pentanediol, 2-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-

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dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 2,5-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 1,6-hexanediol, 2,4-hexanediol, 2,5-dimethyl-; 2,4-hexanediol, 2,3-dimethyl-; 2,4-hexanediol, 2,4-dimethyl-; 2,4-hexanediol, 2,5-dimethyl-; 2,4-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 2,6-heptanediol, 5-methyl-; 2,6-heptanediol, 6-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

VI. 2,4-pentanediol, 2,3,3,4-tetramethyl-; 2,4-pentanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; and/or 2,5-hexanediol, 3,3,5-trimethyl-;

VII. Alkoxylated derivatives of C<sub>3</sub>-8 diols including:

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1. 1,2-propanediol (C3) 2(Me-E<sub>1-4</sub>); 1,2-propanediol (C3) PO<sub>4</sub>; 1,2-propanediol, 2-methyl- (C4) (Me-E<sub>4-10</sub>); 1,2-propanediol, 2-methyl- (C4) 2(Me-E<sub>1</sub>); 1,2-propanediol, 2-methyl- (C4) PO<sub>3</sub>; 1,2-propanediol, 2-methyl- (C4) BO<sub>1</sub>; 1,3-propanediol (C3) 2(Me-E<sub>6-8</sub>); 1,3-propanediol (C3) PO<sub>5-6</sub>; 1,3-propanediol, 2,2-diethyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2,2-diethyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2,2-diethyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me E<sub>1-2</sub>); 1,3-propanediol, 2,2-dimethyl- (C5) PO<sub>3-4</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-ethyl- (C5) (Me E<sub>6-10</sub>); 1,3-propanediol, 2-ethyl- (C5) 2(Me E<sub>1</sub>); 1,3-propanediol, 2-ethyl- (C5) PO<sub>3</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-ethyl-2-methyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-isopropyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-isopropyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-isopropyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-methyl- (C4) 2(Me E<sub>2-5</sub>); 1,3-propanediol, 2-methyl- (C4) PO<sub>4-5</sub>; 1,3-propanediol, 2-methyl- (C4) BO<sub>2</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E<sub>2-9</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) n-BO<sub>1-3</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-propyl- (C6) (Me E<sub>1-4</sub>); 1,3-propanediol, 2-propyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-propyl- (C6) BO<sub>1</sub>;

2. 1,2-butanediol (C4) (Me E<sub>2-8</sub>); 1,2-butanediol (C4) PO<sub>2-3</sub>; 1,2-butanediol (C4) BO<sub>1</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1-2</sub>; 1,2-butanediol, 2-ethyl- (C6) E<sub>1-3</sub>; 1,2-butanediol, 2-ethyl- (C6) n-BO<sub>1</sub>; 1,2-butanediol, 2-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 2-methyl- (C5) PO<sub>1</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) n-BO<sub>1-2</sub>; 1,2-butanediol, 3-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 3-methyl- (C5) PO<sub>1</sub>; 1,3-butanediol (C4) 2(Me E<sub>3-6</sub>); 1,3-butanediol (C4) PO<sub>5</sub>; 1,3-butanediol (C4) BO<sub>2</sub>; 1,3-butanediol, 2,2,3-trimethyl- (C7) (Me E<sub>1-3</sub>); 1,3-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1-2</sub>; 1,3-butanediol, 2,2-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,2-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2,3-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,3-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2-ethyl- (C6) (Me E<sub>1-6</sub>); 1,3-butanediol, 2-ethyl- (C6) PO<sub>2-3</sub>; 1,3-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol,

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2-ethyl-3-methyl- (C7) n-BO<sub>2</sub>-4; 1,3-butanediol, 2-isopropyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-isopropyl- (C7) n-BO<sub>2</sub>-4; 1,3-butanediol, 2-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 2-methyl- (C5) PO<sub>4</sub>; 1,3-butanediol, 2-propyl- (C7) E<sub>2-9</sub>; 1,3-butanediol, 2-propyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-propyl- (C7) n-BO<sub>1-3</sub>; 1,3-butanediol, 3-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 3-methyl- (C5) PO<sub>4</sub>; 1,4-butanediol (C4) 2(Me E<sub>2-4</sub>); 1,4-butanediol (C4) PO<sub>4-5</sub>; 1,4-butanediol (C4) BO<sub>2</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO<sub>1-3</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,2-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,3-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2-ethyl- (C6) (Me E<sub>1-4</sub>); 1,4-butanediol, 2-ethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-isopropyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-isopropyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-methyl- (C5) (Me E<sub>6-10</sub>); 1,4-butanediol, 2-methyl- (C5) 2(Me E<sub>1</sub>); 1,4-butanediol, 2-methyl- (C5) PO<sub>3</sub>; 1,4-butanediol, 2-methyl- (C5) BO<sub>1</sub>; 1,4-butanediol, 2-propyl- (C7) E<sub>1-5</sub>; 1,4-butanediol, 2-propyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO<sub>1-3</sub>; 2,3-butanediol (C4) (Me E<sub>6-10</sub>); 2,3-butanediol (C4) 2(Me E<sub>1</sub>); 2,3-butanediol (C4) PO<sub>3-4</sub>; 2,3-butanediol (C4) BO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) E<sub>3-9</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) PO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1-3</sub>; 2,3-butanediol, 2-methyl- (C5) (Me E<sub>1-5</sub>); 2,3-butanediol, 2-methyl- (C5) PO<sub>2</sub>; 2,3-butanediol, 2-methyl- (C5) BO<sub>1</sub>;

3. 1,2-pentanediol (C5) E<sub>3-10</sub>; 1,2-pentanediol, (C5) PO<sub>1</sub>; 1,2-pentanediol, (C5) n-BO<sub>2-3</sub>; 1,2-pentanediol, 2-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 2-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 2-methyl (C6) BO<sub>1</sub>; 1,2-pentanediol, 3-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 3-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 4-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 4-methyl (C6) n-BO<sub>1</sub>; 1,3-pentanediol (C5) 2(Me-E<sub>1-2</sub>); 1,3-pentanediol (C5) PO<sub>3-4</sub>; 1,3-pentanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,4-

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dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pantanediol, 2-ethyl- (C7) E<sub>2</sub>-9; 1,3-pantanediol, 2-ethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 2-ethyl- (C7) n-BO<sub>1</sub>-3; 1,3-pantanediol, 2-methyl- (C6) 2(Me-E<sub>1</sub>-6); 1,3-pantanediol, 2-methyl- (C6) PO<sub>2</sub>-3; 1,3-pantanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,3-pantanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 3,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pantanediol, 3-methyl- (C6) (Me-E<sub>1</sub>-6); 1,3-pantanediol, 3-methyl- (C6) PO<sub>2</sub>-3; 1,3-pantanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,3-pantanediol, 4,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 4,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 4,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pantanediol, 4-methyl- (C6) (Me-E<sub>1</sub>-6); 1,3-pantanediol, 4-methyl- (C6) PO<sub>2</sub>-3; 1,3-pantanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, (C5) 2(Me-E<sub>1</sub>-2); 1,4-pantanediol, (C5) PO<sub>3</sub>-4; 1,4-pantanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 2-methyl- (C6) (Me-E<sub>1</sub>-6); 1,4-pantanediol, 2-methyl- (C6) PO<sub>2</sub>-3; 1,4-pantanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 3-methyl- (C6) 2(Me-E<sub>1</sub>-6); 1,4-pantanediol, 3-methyl- (C6) PO<sub>2</sub>-3; 1,4-pantanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, 4-methyl- (C6) 2(Me-E<sub>1</sub>-6); 1,4-pantanediol, 4-methyl- (C6) PO<sub>2</sub>-3; 1,4-pantanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,5-pantanediol, (C5) (Me-E<sub>4</sub>-10); 1,5-pantanediol (C5) 2(Me-E<sub>1</sub>); 1,5-pantanediol (C5) PO<sub>3</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) E<sub>1</sub>-7; 1,5-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>1</sub>-2; 1,5-pantanediol, 2,3-dimethyl- (C7) E<sub>1</sub>-7; 1,5-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>1</sub>-2; 1,5-pantanediol, 2-ethyl- (C7) E<sub>1</sub>-5; 1,5-pantanediol, 2-ethyl- (C7) n-BO<sub>1</sub>-2; 1,5-pantanediol, 2-methyl- (C6) (Me-E<sub>1</sub>-4); 1,5-pantanediol, 2-methyl- (C6) PO<sub>2</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) E<sub>1</sub>-7; 1,5-pantanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>1</sub>-2; 1,5-pantanediol, 3-methyl- (C6) (Me-E<sub>1</sub>-4); 1,5-pantanediol, 3-methyl- (C6) PO<sub>2</sub>; 2,3-pantanediol, (C5) (Me-E<sub>1</sub>-3); 2,3-pantanediol, (C5) PO<sub>2</sub>; 2,3-pantanediol, 2-methyl- (C6) E<sub>1</sub>-7; 2,3-pantanediol, 2-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 2-methyl- (C6) n-BO<sub>1</sub>-2; 2,3-pantanediol, 3-methyl- (C6) E<sub>1</sub>-7; 2,3-pantanediol, 3-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 3-methyl-

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(C6) n-BO<sub>1-2</sub>; 2,3-pentanediol, 4-methyl- (C6) E<sub>1-7</sub>; 2,3-pentanediol, 4-methyl- (C6) PO<sub>1</sub>; 2,3-pentanediol, 4-methyl- (C6) n-BO<sub>1-2</sub>; 2,4-pentanediol, (C5) 2(Me-E<sub>1-4</sub>); 2,4-pentanediol (C5) PO<sub>4</sub>; 2,4-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 2,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 2,4-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 2-methyl- (C7) (Me-E<sub>5-10</sub>); 2,4-pentanediol, 2-methyl- (C7) PO<sub>3</sub>; 2,4-pentanediol, 3,3-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 3,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 3-methyl- (C6) (Me-E<sub>5-10</sub>); 2,4-pentanediol, 3-methyl- (C6) PO<sub>3</sub>;

4. 1,3-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,3-hexanediol (C6) PO<sub>2</sub>; 1,3-hexanediol (C6) BO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 2-methyl- (C7) BO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,4-hexanediol (C6) PO<sub>2</sub>; 1,4-hexanediol (C6) BO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,5-hexanediol (C6) PO<sub>2</sub>; 1,5-hexanediol (C6) BO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,6-hexanediol (C6) (Me-E<sub>1-2</sub>); 1,6-hexanediol (C6) PO<sub>1-2</sub>; 1,6-hexanediol (C6) n-BO<sub>4</sub>; 1,6-hexanediol, 2-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 2-methyl- (C7) n-BO<sub>1-2</sub>; 1,6-hexanediol, 3-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 3-methyl- (C7) n-BO<sub>1-2</sub>; 2,3-hexanediol (C6) E<sub>1-5</sub>; 2,3-hexanediol (C6) n-BO<sub>1</sub>; 2,3-hexanediol (C6) BO<sub>1</sub>; 2,4-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,4-hexanediol (C6) PO<sub>3</sub>; 2,4-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 4-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 4-methyl- (C7)

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PO<sub>1</sub>-2; 2,4-hexanediol, 5-methyl- (C7) (Me-E<sub>1</sub>-2); 2,4-hexanediol 5-methyl- (C7)  
PO<sub>1</sub>-2; 2,5-hexanediol (C6) (Me-E<sub>3</sub>-8); 2,5-hexanediol (C6) PO<sub>1</sub>; 2,5-hexanediol, 2-  
methyl- (C7) (Me-E<sub>1</sub>-2); 2,5-hexanediol 2-methyl- (C7) PO<sub>1</sub>-2; 2,5-hexanediol, 3-  
methyl- (C7) (Me-E<sub>1</sub>-2); 2,5-hexanediol 3-methyl- (C7) PO<sub>1</sub>-2; 3,4-hexanediol (C6)  
EO<sub>1</sub>-5; 3,4-hexanediol (C6) n-BO<sub>1</sub>; 3,4-hexanediol (C6) BO<sub>1</sub>;

5. 1,3-heptanediol (C7) E<sub>1</sub>-7; 1,3-heptanediol (C7) PO<sub>1</sub>; 1,3-  
heptanediol (C7) n-BO<sub>1</sub>-2; 1,4-heptanediol (C7) E<sub>1</sub>-7; 1,4-heptanediol (C7) PO<sub>1</sub>;  
1,4-heptanediol (C7) n-BO<sub>1</sub>-2; 1,5-heptanediol (C7) E<sub>1</sub>-7; 1,5-heptanediol (C7)  
PO<sub>1</sub>; 1,5-heptanediol (C7) n-BO<sub>1</sub>-2; 1,6-heptanediol (C7) E<sub>1</sub>-7; 1,6-heptanediol  
(C7) PO<sub>1</sub>; 1,6-heptanediol (C7) n-BO<sub>1</sub>-2; 1,7-heptanediol (C7) E<sub>1</sub>-2; 1,7-  
heptanediol (C7) n-BO<sub>1</sub>; 2,4-heptanediol (C7) E<sub>3</sub>-10; 2,4-heptanediol (C7) (Me-E<sub>1</sub>);  
2,4-heptanediol (C7) PO<sub>1</sub>; 2,4-heptanediol (C7) n-BO<sub>3</sub>; 2,5-heptanediol (C7) E<sub>3</sub>-10;  
2,5-heptanediol (C7) (Me-E<sub>1</sub>); 2,5-heptanediol (C7) PO<sub>1</sub>; 2,5-heptanediol (C7) n-  
BO<sub>3</sub>; 2,6-heptanediol (C7) E<sub>3</sub>-10; 2,6-heptanediol (C7) (Me-E<sub>1</sub>); 2,6-heptanediol  
(C7) PO<sub>1</sub>; 2,6-heptanediol (C7) n-BO<sub>3</sub>; 3,5-heptanediol (C7) E<sub>3</sub>-10; 3,5-heptanediol  
(C7) (Me-E<sub>1</sub>); 3,5-heptanediol (C7) PO<sub>1</sub>; 3,5-heptanediol (C7) n-BO<sub>3</sub>;

6. 1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO<sub>1</sub>; 2,4-pentanediol,  
2,3,3-trimethyl- (C8) PO<sub>1</sub>; 1,3-butanediol, 2,2-diethyl- (C8) E<sub>2</sub>-5; 2,4-hexanediol,  
2,3-dimethyl- (C8) E<sub>2</sub>-5; 2,4-hexanediol, 2,4-dimethyl- (C8) E<sub>2</sub>-5; 2,4-hexanediol,  
2,5-dimethyl- (C8) E<sub>2</sub>-5; 2,4-hexanediol, 3,3-dimethyl- (C8) E<sub>2</sub>-5; 2,4-hexanediol,  
3,4-dimethyl- (C8) E<sub>2</sub>-5; 2,4-hexanediol, 3,5-dimethyl- (C8) E<sub>2</sub>-5; 2,4-hexanediol,  
4,5-dimethyl- (C8) E<sub>2</sub>-5; 2,4-hexanediol, 5,5-dimethyl- (C8) E<sub>2</sub>-5; 2,5-hexanediol,  
2,3-dimethyl- (C8) E<sub>2</sub>-5; 2,5-hexanediol, 2,4-dimethyl- (C8) E<sub>2</sub>-5; 2,5-hexanediol,  
2,5-dimethyl- (C8) E<sub>2</sub>-5; 2,5-hexanediol, 3,3-dimethyl- (C8) E<sub>2</sub>-5; 2,5-hexanediol,  
3,4-dimethyl- (C8) E<sub>2</sub>-5; 3,5-heptanediol, 3-methyl- (C8) E<sub>2</sub>-5; 1,3-butanediol, 2,2-  
diethyl- (C8) n-BO<sub>1</sub>-2; 2,4-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1</sub>-2; 2,4-hexanediol,  
2,4-dimethyl- (C8) n-BO<sub>1</sub>-2; 2,4-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1</sub>-2; 2,4-  
hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1</sub>-2; 2,4-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1</sub>-  
2; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1</sub>-2; 2,4-hexanediol, 4,5-dimethyl- (C8)  
n-BO<sub>1</sub>-2; 2,4-hexanediol, 5,5-dimethyl-, n-BO<sub>1</sub>-2; 2,5-hexanediol, 2,3-dimethyl-  
(C8) n-BO<sub>1</sub>-2; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1</sub>-2; 2,5-hexanediol, 2,5-  
dimethyl- (C8) n-BO<sub>1</sub>-2; 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1</sub>-2; 2,5-  
hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1</sub>-2; 3,5-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>-2;  
1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2,3-  
dimethyl- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,4-  
butanediol, 3-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,3-trimethyl-  
(C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,4,4-

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trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,3,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-hexanediol, 4-ethyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 3,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-hexanediol, 4-ethyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; and/or 3,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>.

7. mixtures thereof; and

VIII. aromatic diols including: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol, 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; 2-phenyl-1,4-butanediol; and/or 1-phenyl-2,3-butanediol; and mixtures thereof; and

IX. mixtures thereof,

with the exception of the following specific compounds:

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3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 6-Heptene-1,4-diol, 4-methyl-; 4-Octene-3,6-diol; 4-Octene-3,6-diol; 3-Octene-1,2-diol; 3-Nonene-2,5-diol; 7-Nonene-4,5-diol; 7-Nonene-4,5-diol; 6-Nonene-2,3-diol; 6-Heptene-2,4-diol, 5-methyl-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 1,3-Propanediol, 2-(2-methylenepentyl)-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 5-Hexene-2,4-diol, 3,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 7-Octene-1,6-diol; 2-Hexene-1,4-diol, 2,5-dimethyl-; 2-Hexene-1,4-diol, 2,5-dimethyl-; 1,4-Hexanediol, 5-methyl-2-methylene-; 4-Octene-2,3-diol; Nonene-1,4-diol; 6-Heptene-1,4-diol, 4-methyl-; 6-Octene-3,5-diol, 4-methyl-; 2,6-Octadiene-1,8-diol, 2,6-dimethyl-; (8-Hydroxygeraniol); 1-Heptene-3,5-diol, 2,4-dimethyl- 2,4-Hexanediol, 5-methyl-3-methylene-; 2,4-Hexanediol, 5-methyl-3-methylene-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 6-Heptene-2,4-diol, 5-methyl-; 4,9-Decadiene-1,8-diol; 5-Hexene-1,3-diol, 2,4-dimethyl-; 7-Octene-1,3-diol, 2-methyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 4-Nonene-2,8-diol; 4-Nonene-2,8-diol; 5-Hexene-2,3-diol, 2,3-dimethyl-; 2-Butene-1,4-diol, 2-buryl-; 2,4-Hexadiene-1,6-diol, 3-(1,1-dimethylethyl)-; 6-Octene-1,4-diol, 7-methyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 7-Octene-2,5-diol, 7-methyl-; 7-Octene-2,5-diol, 7-methyl-; 4-Hexene-1,3-diol, 2,4-dimethyl-; 4-Octene-2,7-diol; 4-Octene-2,7-diol; 3-Heptene-1,2-diol, 5-methyl-; 3-Heptene-1,2-diol, 5-methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 8-Nonene-1,7-diol; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Isorosiridol); 5-Hexene-1,4-diol, 2,4-dimethyl-; 1-Heptene-3,4-diol, 6-methyl-; 3-Heptene-1,5-diol, 4,6-dimethyl-; 3-Octene-1,5-diol, 4-methyl-; 3,9-Decadiene-1,2-diol; 7-Octene-2,3-diol, 2-methyl-; 7-Octene-2,3-diol, 2-methyl-; 6-Nonene-2,3-diol; 2,5-Hexanediol, 3-methyl-4-methylene-; 6-Heptene-1,4-diol, 2-methyl-; 6-Octene-1,5-diol; 1-Octene-3,4-diol; 7-Octene-1,6-diol, 5-methyl-; 7-Octene-1,6-diol, 5-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methylethyl)-; 1,3-Pantanediol, 2-ethenyl-4,4-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,5-Octanediol, 4-methylene-; 6-Heptene-2,3-diol, 2-methyl-; 6-Heptene-2,3-diol, 2,6-dimethyl-; 6-Heptene-2,3-diol, 2-methyl-; 7-Octene-1,3-diol, 4-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 1-Nonene-3,4-diol; 5-Heptene-1,2-diol, 3-methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 6-Heptene-1,3-diol, 2,2-dimethyl-; 4-Nonene-1,3-diol; 1,4-Pantanediol, 3-methyl-2-(2-propenyl)-; 1-Nonene-3,4-diol; 8-Nonene-1,2-diol; 3-Octene-1,2-diol; 1,9-Decadiene-4,6-diol; 1,9-

Decadiene-4,6-diol; 5-Hexene-1,3-diol, 2,2-dimethyl-; 1,3-Propanediol, 2-(1-pentenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 8-Nonene-1,3-diol; 2,4-Octadiene-1,8-diol, 2,7-dimethyl-; 5-Heptene-1,2-diol, 6-methyl-; 3,9-Decadiene-1,2-diol; 3-Nonene-1,2-diol; 6-Nonene-1,2-diol; 4-Hexene-1,3-diol, 2,4-dimethyl-; 2,4-Octadiene-1,7-diol, 3,7-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 1,3-Butanediol, 2-methyl-2-(2-propenyl)-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 6-Heptene-1,5-diol, 6-methyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 1,5-Pantanediol, 2-(2-propenyl)-; 5-Hexene-2,3-diol, 3,5-dimethyl-; 5-Hexene-2,3-diol, 3,5-dimethyl-; Nonenediol; Octenediol; 5-Hexene-1,3-diol, 3,5-dimethyl-; 4-Nonene-1,8-diol; 4-Nonene-1,7-diol; 4-Nonene-1,6-diol; 6-Nonene-1,4-diol; 2-Nonene-1,4-diol; 8-Nonene-2,5-diol; 5-Heptene-1,2-diol, 2-ethenyl-6-methyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 5-Heptene-2,3-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 1,3-Propanediol, 2-methyl-2-(3-methyl-3-butenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6-dimethyl-; 5-Hexene-1,2-diol, 2-ethyl-; 2,4-Nonadiene-4-d-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,6,7-d3-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,7-diol, 6-methyl-; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 1,3-Butanediol, 3-methyl-2-(4-pentenylidene)-; 1,3-Butanediol, 3-methyl-2-(4-pentenylidene)-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Nonene-1,4-diol; 2-Nonene-1,4-diol; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 5-Octene-1,3-diol; 7-Octene-1,3-diol, 2-methyl-; 4-Heptene-1,3-diol, 2-methyl-; 4-Octene-2,3-d2-1,2-diol; 4-Octene-2,3-d2-1,2-diol; 5-Heptene-1,2-diol, 3-methyl-; 5-Octene-1,2-diol; 3,7-Octadiene-1,6-diol, 2,6-dimethyl-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 1,7-Octadiene-4,5-diol, 4,5-dimethyl-; 1,7-Octadiene-4,5-diol, 4,5-dimethyl-; 5-Heptene-1,3-diol, 2-methyl-; 5-Heptene-1,3-diol, 2-methyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2-Heptene-1,5-diol, 6-methyl-; 2-Heptene-1,5-diol, 6-methyl-; 8,9-Decadiene-3,5-diol; 8,9-Decadiene-3,5-diol; 4,6-Nonadiene-1,3-diol, 8-methyl-; 3,5-Nonadiene-1,7-diol, 8-methyl-; 5-Heptene-1,3-diol, 2,4-dimethyl-; 2-Nonene-1,9-diol; 2-Nonene-1,9-diol; 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 3-Heptene-1,5-diol, 6-methyl-; 1,3-Pantanediol, 2-ethenyl-4-methyl-; 1,3-Pantanediol, 2-ethenyl-4-methyl-; 5-Hexene-

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2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 2,3,4-trimethyl-; 4-Pentene-1,2-diol, 2,3,3-trimethyl-; 1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-; 1,3-Propanediol, 2-(2-butenyl)-2-(2-propenyl)-; 5-Hexene-1,2-diol, 2-ethyl-, 1,4-Butanediol, 2-(4-methyl-3-pentenylidene)- (β-Acaridiol); 6-Heptene-1,3-diol, 2-methyl-; 2,6-Octadiene-1,8-diol-2-13C, 2,6-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Nonene-3,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 7-Octene-1,2-diol, 2-methyl-; 1-Nonene-3,5-diol; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 7-Octene-1,2-diol; 7-Octene-1,2-diol; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 1,3-Propanediol, 2-(2,2-dimethylpropylidene)-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,8-Decadiene-1,10-diol; 6-Octene-1,5-diol, 7-methyl-; 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 4-Hexene-1,2-diol, 4-ethyl-3-methyl-; 8-Nonene-1,3-diol; 1,4-Butanediol, 2-(3-methyl-2-butene)-3-methylene-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 8-Nonene-2,4-diol; 2,6-Heptanediol, 4-methylene-; 3-Hexene-3,4-diol, 2,5-dimethyl-; 4-Octene-4,5-diol; 5-Hexene-1,2-diol, 2,3-dimethyl-; 3-Hexene-1,6-diol, 2-ethenyl-2,5-dimethyl-; 3-Hexene-1,5-diol, 2,4-dimethyl-; 3-Hexene-1,5-diol, 2,4-dimethyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 3,6-Octadiene-1,2-diol, 3,7-dimethyl-; 7-Octene-2,3-diol, 6-methyl-; 7-Octene-2,3-diol, 6-methyl-; 7-Octene-2,3-diol, 6-methyl-; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 6-Octene-1,3-diol, 7-methyl-; Decadienediol; 6-Heptene-1,2-diol, 2,3-dimethyl-; 4-Hexene-1,3-diol, 3,5-dimethyl-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 1-Heptene-3,5-diol, 6,6-dimethyl-; 1-Heptene-3,5-diol, 6,6-dimethyl-; 1,3-Hexanediol, 5-methyl-4-methylene-; 4-Octene-1,2-diol, 2,3-Heptanediol, 3-ethenyl-; 2,3-Heptanediol, 3-ethenyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 1,3-Octanediol, 2-methylene-; 8-Nonene-1,3-diol; 5-Heptene-1,4-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2,6-dimethyl-; 4-Octene-2,3-diol; 4-Octene-2,3-diol; 5,7-Octadiene-1,4-diol, 2,7-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 2-Heptene-1,5-diol, 5-ethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 1,3-Pantanediol, 2-ethenyl-3-ethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 8-Nonene-3,4-diol; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 4,5-dimethyl-; 5-Hexene-1,3-diol, 4,5-dimethyl-; 4,6-Octadiene-2,3-diol, 3,7-dimethyl-; 1,3-Butanediol, 2,2-diallyl-; 1,9-Decadiene-3,8-diol; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2,8-Decadiene-5,6-diol; 2,7-Octadiene-1,6-diol, 2,5-dimethyl- (8-Hydroxylinalool); 6-Heptene-1,2-diol, 2-methyl-; 5-Hexene-1,3-diol, 2,3-dimethyl-; 2,6-Octadiene-1,8-diol, 6-methyl-2-(methyl-

13C)-, 1,3-Propanediol, 2-(5-hexenyl)-; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 3-ethyl-, 7-Octene-3,4-diol; 6-Heptene-1,2-diol, 2-methyl-, 6-Heptene-2,4-diol, 4-(2-propenyl)-, 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridol); 8-Nonene-3,4-diol; 6-Heptene-2,3-diol, 6-methyl-, 6-Heptene-2,3-diol, 2,6-dimethyl-, 4-Hexene-2,3-diol, 2,5-dimethyl-, 4,6-Octadiene-2,3-diol, 2,6-dimethyl-, 7-Octene-2,3-diol, 2-methyl-6-methylene-, 7-Octene-2,3-diol, 6-methyl-, 4,6-Octadiene-2,3-diol, 2,6-dimethyl-, 1,4-Heptanediol, 6-methyl-5-methylene-, 2-Butene-1,4-diol, 2-(4-methyl-3-pentenyl)- (α-Acaridol); 4-Octene-1,2-diol; 4-Octene-1,2-diol; 7-Octene-2,4-diol; 6-Heptene-2,4-diol, 3-methyl-, 6-Heptene-2,4-diol, 3-methyl-, 3-Heptene-2,5-diol, 2,4-dimethyl-, 1,3-Butanediol, 2-(3-methyl-2-but enyl)-; 7-Octene-3,5-diol, 2-methyl-, 7-Octene-3,5-diol, 2-methyl-, 6-Heptene-2,4-diol, 5,5-dimethyl-, 6-Heptene-2,4-diol, 5,5-dimethyl-, 1,3-Propanediol, 2-methyl-2-(2-methylallyl)-, 2-Heptene-1,6-diol, 6-methyl-, 1,3-Butanediol, 2-allyl-3-methyl-, 2-Nonene-1,4-diol; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl-, 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl-, 2-Nonene-1,4-diol; 5-Heptene-1,3-diol, 3,6-dimethyl-, 1,5-Hexanediol, 2-(1-methylethenyl)-; and 1,3-Propanediol, 2-(1-pentenyl)-; and

D. mixtures of the above compounds; and

E. mixtures of 8-carbon-diol isomers primarily consisting of 2,2,4-trimethyl-1,3-pantanediol; 2-ethyl-1,3-hexanediol, 2,2-dimethyl-1,3-hexanediol; 2-ethyl-4-methyl-1,3-pantanediol; 2-ethyl-3-methyl-1,3-pantanediol; 3,5-octanediol; 2,2-dimethyl-2,4-hexanediol, 2-methyl-3,5-heptanediol; and/or 3-methyl-3,5-heptanediol, the level of any individual 1,3-diol being less than about 90% of any mixture.

2. The material of Claim 1 that is a compound selected from the group consisting of:

1,2-butanediol, 2,3,3-trimethyl-, 3,4-pantanediol, 2,3-dimethyl-, 2,3-hexanediol, 4-methyl-, 2,3-hexanediol, 5-methyl-, 3,4-hexanediol, 2-methyl-, 3,4-pantanediol, 2,3-dimethyl-, 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-, 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-, 1,3-butanediol, 3-methyl-2-isopropyl-, 1,3-butanediol, 3-methyl-2-propyl-, 1,4-butanediol, 2,2-diethyl-, 1,4-butanediol, 2-methyl-2-propyl-, 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-, 1,4-butanediol, 2-ethyl-3,3-dimethyl-, 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-pantanediol, 2,2,3-trimethyl-, 1,4-pantanediol, 2,3,3-trimethyl-, 1,5-pantanediol, 2,2,3-trimethyl-, 1,5-pantanediol, 2,3,3-trimethyl-, 1,3-pantanediol, 2-ethyl-2-methyl-, 1,4-pantanediol, 2-ethyl-2-methyl-, 1,4-pantanediol, 2-ethyl-3-

methyl-; 1,4-pantanediol, 2-ethyl-4-methyl-; 1,4-pantanediol, 3-ethyl-2-methyl-; 1,4-pantanediol, 3-ethyl-3-methyl-; 1,5-pantanediol, 2-ethyl-2-methyl-; 1,5-pantanediol, 2-ethyl-4-methyl-; 2,4-pantanediol, 3-ethyl-2-methyl-; 1,3-pantanediol, 2-isopropyl-; 1,3-pantanediol, 2-propyl-; 1,4-pantanediol, 2-isopropyl-; 1,4-pantanediol, 2-propyl-; 1,4-pantanediol, 3-isopropyl-; 2,4-pantanediol, 3-propyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 4-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 5-methyl-; 2,4-heptanediol, 5-methyl-; 2,5-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 2,6-octanediol; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; 2,5-hexanediol, 3,3,5-trimethyl-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(isoamyoxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(4-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(isoamyoxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol, 3-(butyloxy)-, dibutyleneoxylated; and 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated.

3. The material of Claim 1 that is an ether solvent selected from the group consisting of: 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyoxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyoxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol, 3-(butyloxy)-, dibutyleneoxylated; and 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated; bis(2-hydroxybutyl)ether; and bis(2-hydroxycyclopentyl)ether.

4. The material of Claim 1 that is a compound which is a homolog, or analog, of the following compounds in which each homolog, or analog, contains at least one additional  $\text{CH}_2$  group and the total number of hydrogen atoms is kept the same by inserting one double bond for each additional  $\text{CH}_2$  group:

- I. n-propanol;
- II. 2-butanol and/or 2-methyl-2-propanol;
- III. 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pantanediol, 2-methyl-; 2,3-pantanediol, 3-methyl-; 2,3-pantanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pantanediol, 2-methyl-; 1,2-pantanediol, 3-methyl-; 1,2-pantanediol, 4-methyl-; and/or 1,2-hexanediol;
- IV. 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pantanediol, 2,2-dimethyl-; 1,5-pantanediol, 2,3-dimethyl-; 1,5-pantanediol, 2,4-dimethyl-; 1,5-pantanediol, 3,3-dimethyl-; 2,3-pantanediol, 2,3-dimethyl-; 2,3-pantanediol, 2,4-dimethyl-; 2,3-pantanediol, 3,4-dimethyl-; 2,3-pantanediol, 4,4-dimethyl-; 3,4-pantanediol, 2,3-dimethyl-; 1,5-pantanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-

methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-, 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol, 1,4-, heptanediol, 1,5-heptanediol; and 1,6-heptanediol;

V. 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-butyl-2-methyl-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3-propyl-; 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pantanediol, 2,2,3-trimethyl-; 1,3-pantanediol, 2,2,4-trimethyl-; 1,3-pantanediol, 2,3,4-trimethyl-; 1,3-pantanediol, 2,4,4-trimethyl-; 1,3-pantanediol, 3,4,4-trimethyl-; 1,4-pantanediol, 2,2,3-trimethyl-; 1,4-pantanediol, 2,2,4-trimethyl-; 1,4-pantanediol, 2,3,3-trimethyl-; 1,4-pantanediol, 3,3,4-trimethyl-; 1,5-pantanediol, 2,2,3-trimethyl-; 1,5-pantanediol, 2,2,4-trimethyl-; 1,5-pantanediol, 2,3,3-trimethyl-; 1,5-pantanediol, 2,3,4-trimethyl-; 2,4-pantanediol, 2,3,3-trimethyl-; 2,4-pantanediol, 2,3,4-trimethyl-; 1,3-pantanediol, 2-ethyl-2-methyl-; 1,3-pantanediol, 2-ethyl-3-methyl-; 1,3-pantanediol, 2-ethyl-4-methyl-; 1,3-pantanediol, 3-ethyl-2-methyl-; 1,4-pantanediol, 2-ethyl-2-methyl-; 1,4-pantanediol, 2-ethyl-3-methyl-; 1,4-pantanediol, 2-ethyl-4-methyl-; 1,4-pantanediol, 3-ethyl-2-methyl-; 1,4-pantanediol, 3-ethyl-3-methyl-; 1,5-pantanediol, 2-ethyl-2-methyl-; 1,5-pantanediol, 2-ethyl-3-methyl-; 1,5-pantanediol, 2-ethyl-4-methyl-; 1,5-pantanediol, 3-ethyl-3-methyl-; 2,4-pantanediol, 3-ethyl-2-methyl-; 1,3-pantanediol, 2-isopropyl-; 1,3-pantanediol, 2-propyl-; 1,4-pantanediol, 2-isopropyl-; 1,4-pantanediol, 2-propyl-; 1,4-pantanediol, 3-isopropyl-; 1,5-pantanediol, 2-isopropyl-; 2,4-pantanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-

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dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 2,5-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 1,6-hexanediol, 2,4-hexanediol, 2,5-dimethyl-; 2,4-hexanediol, 2,3-dimethyl-; 2,4-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 2,5-dimethyl-; 2,4-hexanediol, 3,5-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,4-hexanediol, 5,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

VI. 2,4-pantanediol, 2,3,3,4-tetramethyl-; 2,4-pantanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; and/or 2,5-hexanediol, 3,3,5-trimethyl-;

VIII. Alkoxylated derivatives of C<sub>3-8</sub> diols including:

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1. 1,2-propanediol (C3) 2(Me-E<sub>1-4</sub>); 1,2-propanediol (C3) PO<sub>4</sub>; 1,2-propanediol, 2-methyl- (C4) (Me-E<sub>4-10</sub>); 1,2-propanediol, 2-methyl- (C4) 2(Me-E<sub>1</sub>); 1,2-propanediol, 2-methyl- (C4) PO<sub>3</sub>; 1,2-propanediol, 2-methyl- (C4) BO<sub>1</sub>; 1,3-propanediol (C3) 2(Me-E<sub>6-8</sub>); 1,3-propanediol (C3) PO<sub>5-6</sub>; 1,3-propanediol, 2,2-diethyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2,2-diethyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2,2-diethyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me E<sub>1-2</sub>); 1,3-propanediol, 2,2-dimethyl- (C5) PO<sub>3-4</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-ethyl- (C5) (Me E<sub>6-10</sub>); 1,3-propanediol, 2-ethyl- (C5) 2(Me E<sub>1</sub>); 1,3-propanediol, 2-ethyl- (C5) PO<sub>3</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-ethyl-2-methyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-isopropyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-isopropyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-isopropyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-methyl- (C4) 2(Me E<sub>2-8</sub>); 1,3-propanediol, 2-methyl- (C4) PO<sub>4-5</sub>; 1,3-propanediol, 2-methyl- (C4) BO<sub>2</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E<sub>2-9</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) n-BO<sub>1-3</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-propyl- (C6) (Me E<sub>1-4</sub>); 1,3-propanediol, 2-propyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-propyl- (C6) BO<sub>1</sub>;

2. 1,2-butanediol (C4) (Me E<sub>2-8</sub>); 1,2-butanediol (C4) PO<sub>2-3</sub>; 1,2-butanediol (C4) BO<sub>1</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1-2</sub>; 1,2-butanediol, 2-ethyl- (C6) E<sub>1-3</sub>; 1,2-butanediol, 2-ethyl- (C6) n-BO<sub>1</sub>; 1,2-butanediol, 2-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 2-methyl- (C5) PO<sub>1</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) n-BO<sub>1-2</sub>; 1,2-butanediol, 3-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 3-methyl- (C5) PO<sub>1</sub>; 1,3-butanediol (C4) 2(Me E<sub>3-6</sub>); 1,3-butanediol (C4) PO<sub>5</sub>; 1,3-butanediol (C4) BO<sub>2</sub>; 1,3-butanediol, 2,2,3-trimethyl- (C7) (Me E<sub>1-3</sub>); 1,3-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1-2</sub>; 1,3-butanediol, 2,2-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,2-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2,3-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,3-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2-ethyl- (C6) (Me E<sub>1-6</sub>); 1,3-butanediol, 2-ethyl- (C6) PO<sub>2-3</sub>; 1,3-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol,

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2-ethyl-3-methyl- (C7) n-BO<sub>2</sub>-4; 1,3-butanediol, 2-isopropyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-isopropyl- (C7) n-BO<sub>2</sub>-4; 1,3-butanediol, 2-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 2-methyl- (C5) PO<sub>4</sub>; 1,3-butanediol, 2-propyl- (C7) E<sub>2-9</sub>; 1,3-butanediol, 2-propyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-propyl- (C7) n-BO<sub>1-3</sub>; 1,3-butanediol, 3-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 3-methyl- (C5) PO<sub>4</sub>; 1,4-butanediol (C4) 2(Me E<sub>2-4</sub>); 1,4-butanediol (C4) PO<sub>4-5</sub>; 1,4-butanediol (C4) BO<sub>2</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO<sub>1-3</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,2-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,3-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2-ethyl- (C6) (Me E<sub>1-4</sub>); 1,4-butanediol, 2-ethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-isopropyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-isopropyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-methyl- (C5) (Me E<sub>6-10</sub>); 1,4-butanediol, 2-methyl- (C5) 2(Me E<sub>1</sub>); 1,4-butanediol, 2-methyl- (C5) PO<sub>3</sub>; 1,4-butanediol, 2-methyl- (C5) BO<sub>1</sub>; 1,4-butanediol, 2-propyl- (C7) E<sub>1-5</sub>; 1,4-butanediol, 2-propyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO<sub>1-3</sub>; 2,3-butanediol (C4) (Me E<sub>6-10</sub>); 2,3-butanediol (C4) 2(Me E<sub>1</sub>); 2,3-butanediol (C4) PO<sub>3-4</sub>; 2,3-butanediol (C4) BO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) E<sub>3-9</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) PO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1-3</sub>; 2,3-butanediol, 2-methyl- (C5) (Me E<sub>1-5</sub>); 2,3-butanediol, 2-methyl- (C5) PO<sub>2</sub>; 2,3-butanediol, 2-methyl- (C5) BO<sub>1</sub>;

3. 1,2-pentanediol (C5) E<sub>3-10</sub>; 1,2-pentanediol, (C5) PO<sub>1</sub>; 1,2-pentanediol, (C5) n-BO<sub>2-3</sub>; 1,2-pentanediol, 2-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 2-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 2-methyl (C6) BO<sub>1</sub>; 1,2-pentanediol, 3-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 3-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 4-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 4-methyl (C6) n-BO<sub>1</sub>; 1,3-pentanediol (C5) 2(Me-E<sub>1-2</sub>); 1,3-pentanediol (C5) PO<sub>3-4</sub>; 1,3-pentanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,4-

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dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pantanediol, 2-ethyl- (C7) E<sub>2.9</sub>; 1,3-pantanediol, 2-ethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 2-ethyl- (C7) n-BO<sub>1.3</sub>; 1,3-pantanediol, 2-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,3-pantanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,3-pantanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,3-pantanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 3,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pantanediol, 3-methyl- (C6) (Me-E<sub>1-6</sub>); 1,3-pantanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,3-pantanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,3-pantanediol, 4,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 4,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 4,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pantanediol, 4-methyl- (C6) (Me-E<sub>1-6</sub>); 1,3-pantanediol, 4-methyl- (C6) PO<sub>2-3</sub>; 1,3-pantanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, (C5) 2(Me-E<sub>1-2</sub>); 1,4-pantanediol (C5) PO<sub>3-4</sub>; 1,4-pantanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,2-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 2-methyl- (C6) (Me-E<sub>1-6</sub>); 1,4-pantanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 3-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,4-pantanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, 4-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,4-pantanediol, 4-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,5-pantanediol, (C5) (Me-E<sub>4-10</sub>); 1,5-pantanediol (C5) 2(Me-E<sub>1</sub>); 1,5-pantanediol (C5) PO<sub>3</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) E<sub>1.7</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) E<sub>1.7</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) E<sub>1.7</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2-ethyl- (C7) E<sub>1.5</sub>; 1,5-pantanediol, 2-ethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2-methyl- (C6) (Me-E<sub>1-4</sub>); 1,5-pantanediol, 2-methyl- (C6) PO<sub>2</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 3-methyl- (C6) (Me-E<sub>1-4</sub>); 1,5-pantanediol, 3-methyl- (C6) PO<sub>2</sub>; 2,3-pantanediol, (C5) (Me-E<sub>1-3</sub>); 2,3-pantanediol, (C5) PO<sub>2</sub>; 2,3-pantanediol, 2-methyl- (C6) E<sub>1.7</sub>; 2,3-pantanediol, 2-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 2-methyl- (C6) n-BO<sub>1-2</sub>; 2,3-pantanediol, 3-methyl- (C6) E<sub>1.7</sub>; 2,3-pantanediol, 3-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 3-methyl-

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(C6) n-BO<sub>1-2</sub>; 2,3-pentanediol, 4-methyl- (C6) E<sub>1-7</sub>; 2,3-pentanediol, 4-methyl- (C6) PO<sub>1</sub>; 2,3-pentanediol, 4-methyl- (C6) n-BO<sub>1-2</sub>; 2,4-pentanediol, (C5) 2(Me-E<sub>1-4</sub>); 2,4-pentanediol (C5) PO<sub>4</sub>; 2,4-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 2,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 2,4-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 2-methyl- (C7) (Me-E<sub>5-10</sub>); 2,4-pentanediol, 2-methyl- (C7) PO<sub>3</sub>; 2,4-pentanediol, 3,3-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 3,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 3-methyl- (C6) (Me-E<sub>5-10</sub>); 2,4-pentanediol, 3-methyl- (C6) PO<sub>3</sub>

4. 1,3-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,3-hexanediol (C6) PO<sub>2</sub>; 1,3-hexanediol (C6) BO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 2-methyl- (C7) BO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,4-hexanediol (C6) PO<sub>2</sub>; 1,4-hexanediol (C6) BO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,5-hexanediol (C6) PO<sub>2</sub>; 1,5-hexanediol (C6) BO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,6-hexanediol (C6) (Me-E<sub>1-2</sub>); 1,6-hexanediol (C6) PO<sub>1-2</sub>; 1,6-hexanediol (C6) n-BO<sub>4</sub>; 1,6-hexanediol, 2-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 2-methyl- (C7) n-BO<sub>1-2</sub>; 1,6-hexanediol, 3-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 3-methyl- (C7) n-BO<sub>1-2</sub>; 2,3-hexanediol (C6) E<sub>1-5</sub>; 2,3-hexanediol (C6) n-BO<sub>1</sub>; 2,3-hexanediol (C6) BO<sub>1</sub>; 2,4-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,4-hexanediol (C6) PO<sub>3</sub>; 2,4-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 4-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 4-methyl- (C7)

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PO<sub>1-2</sub>; 2,4-hexanediol, 5-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 5-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,5-hexanediol (C6) PO<sub>3</sub>; 2,5-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 3,4-hexanediol (C6) EO<sub>1-5</sub>; 3,4-hexanediol (C6) n-BO<sub>1</sub>; 3,4-hexanediol (C6) BO<sub>1</sub>;

5. 1,3-heptanediol (C7) E<sub>1-7</sub>; 1,3-heptanediol (C7) PO<sub>1</sub>; 1,3-heptanediol (C7) n-BO<sub>1-2</sub>; 1,4-heptanediol (C7) E<sub>1-7</sub>; 1,4-heptanediol (C7) PO<sub>1</sub>; 1,4-heptanediol (C7) n-BO<sub>1-2</sub>; 1,5-heptanediol (C7) E<sub>1-7</sub>; 1,5-heptanediol (C7) PO<sub>1</sub>; 1,5-heptanediol (C7) n-BO<sub>1-2</sub>; 1,6-heptanediol (C7) E<sub>1-7</sub>; 1,6-heptanediol (C7) PO<sub>1</sub>; 1,6-heptanediol (C7) n-BO<sub>1-2</sub>; 1,7-heptanediol (C7) E<sub>1-2</sub>; 1,7-heptanediol (C7) n-BO<sub>1</sub>; 2,4-heptanediol (C7) E<sub>3-10</sub>; 2,4-heptanediol (C7) (Me-E<sub>1</sub>); 2,4-heptanediol (C7) PO<sub>1</sub>; 2,4-heptanediol (C7) n-BO<sub>3</sub>; 2,5-heptanediol (C7) E<sub>3-10</sub>; 2,5-heptanediol (C7) (Me-E<sub>1</sub>); 2,5-heptanediol (C7) PO<sub>1</sub>; 2,5-heptanediol (C7) n-BO<sub>3</sub>; 2,6-heptanediol (C7) E<sub>3-10</sub>; 2,6-heptanediol (C7) (Me-E<sub>1</sub>); 2,6-heptanediol (C7) PO<sub>1</sub>; 2,6-heptanediol (C7) n-BO<sub>3</sub>; 3,5-heptanediol (C7) E<sub>3-10</sub>; 3,5-heptanediol (C7) (Me-E<sub>1</sub>); 3,5-heptanediol (C7) PO<sub>1</sub>; 3,5-heptanediol (C7) n-BO<sub>3</sub>;

6. 1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO<sub>1</sub>; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO<sub>1</sub>; 1,3-butanediol, 2,2-diethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) E<sub>2-5</sub>; 3,5-heptanediol, 3-methyl- (C8) E<sub>2-5</sub>; 1,3-butanediol, 2,2-diethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 3,5-heptanediol, 3-methyl- (C8) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,4,4-

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trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,3,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-hexanediol, 4-ethyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 3,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-hexanediol, 4-ethyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; and/or 3,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; and IX. mixtures thereof;

with the exception of the following specific compounds:

3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 6-Heptene-1,4-diol, 4-methyl-; 4-Octene-3,6-diol; 4-Octene-3,6-diol; 3-Octene-1,2-diol; 3-Nonene-2,5-diol; 7-Nonene-4,5-diol; 7-Nonene-4,5-diol; 6-Nonene-2,3-diol; 6-Heptene-2,4-diol, 5-methyl-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 1,3-Propanediol, 2-(2-methylenepentyl)-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 3-Heptene-2,6-diol, 2,6-

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dimethyl-; 5-Hexene-2,4-diol, 3,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 7-Octene-1,6-diol; 2-Hexene-1,4-diol, 2,5-dimethyl-; 2-Hexene-1,4-diol, 2,5-dimethyl-; 1,4-Hexanediol, 5-methyl-2-methylene-; 4-Octene-2,3-diol; Nonene-1,4-diol; 6-Heptene-1,4-diol, 4-methyl-; 6-Octene-3,5-diol, 4-methyl-; 2,6-Octadiene-1,8-diol, 2,6-dimethyl-; (8-Hydroxygeranio); 1-Heptene-3,5-diol, 2,4-dimethyl-; 2,4-Hexanediol, 5-methyl-3-methylene-; 2,4-Hexanediol, 5-methyl-3-methylene-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 6-Heptene-2,4-diol, 5-methyl-; 4,9-Decadiene-1,8-diol; 5-Hexene-1,3-diol, 2,4-dimethyl-; 7-Octene-1,3-diol, 2-methyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 4-Nonene-2,8-diol; 5-Hexene-2,3-diol, 2,3-dimethyl-; 2-Butene-1,4-diol, 2-butyl-; 2,4-Hexadiene-1,6-diol, 3-(1,1-dimethylethyl)-; 6-Octene-1,4-diol, 7-methyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 7-Octene-2,5-diol, 7-methyl-; 7-Octene-2,5-diol, 7-methyl-; 4-Hexene-1,3-diol, 2,4-dimethyl-; 4-Octene-2,7-diol; 4-Octene-2,7-diol; 3-Heptene-1,2-diol, 5-methyl-; 3-Heptene-1,2-diol, 5-methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 8-Nonene-1,7-diol; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Isorosiridol); 5-Hexene-1,4-diol, 2,4-dimethyl-; 1-Heptene-3,4-diol, 6-methyl-; 3-Heptene-1,5-diol, 4,6-dimethyl-; 3-Octene-1,5-diol, 4-methyl-; 3,9-Decadiene-1,2-diol; 7-Octene-2,3-diol, 2-methyl-; 7-Octene-2,3-diol, 2-methyl-; 6-Nonene-2,3-diol; 2,5-Hexanediol, 3-methyl-4-methylene-; 6-Heptene-1,4-diol, 2-methyl-; 6-Octene-1,5-diol; 1-Octene-3,4-diol; 7-Octene-1,6-diol, 5-methyl-; 7-Octene-1,6-diol, 5-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methylethenyl)-; 1,3-Pantanediol, 2-ethenyl-4,4-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,5-Octanediol, 4-methylene-; 6-Heptene-2,3-diol, 2-methyl-; 6-Heptene-2,3-diol, 2,6-dimethyl-; 6-Heptene-2,3-diol, 2-methyl-; 7-Octene-1,3-diol, 4-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 1-Nonene-3,4-diol; 5-Heptene-1,2-diol, 3-methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 6-Heptene-1,3-diol, 2,2-dimethyl-; 4-Nonene-1,3-diol; 1,4-Pantanediol, 3-methyl-2-(2-propenyl)-; 1-Nonene-3,4-diol; 8-Nonene-1,2-diol; 3-Octene-1,2-diol; 1,9-Decadiene-4,6-diol; 1,9-Decadiene-4,6-diol; 5-Hexene-1,3-diol, 2,2-dimethyl-; 1,3-Propanediol, 2-(1-pentenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 1,3-Propanediol, 2-(3-methyl-1-but enyl)-; 8-Nonene-1,3-diol; 2,4-Octadiene-1,8-diol, 2,7-dimethyl-; 5-Heptene-1,2-diol, 6-methyl-; 3,9-Decadiene-1,2-diol; 3-Nonene-1,2-diol; 6-Nonene-1,2-diol; 4-Hexene-1,3-diol, 2,4-dimethyl-; 2,4-Octadiene-1,7-diol, 3,7-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 1,3-Butanediol, 2-

methyl-2-(2-propenyl)-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 6-Heptene-1,5-diol, 6-methyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 1,5-Pantanediol, 2-( $\gamma$ -propenyl)-; 5-Hexene-2,3-diol, 3,5-dimethyl-; 5-Hexene-2,3-diol, 3,5-dimethyl-; Nonenediol; Octenediol; 5-Hexene-1,3-diol, 3,5-dimethyl-; 4-Nonene-1,8-diol; 4-Nonene-1,7-diol; 4-Nonene-1,6-diol; 6-Nonene-1,4-diol; 2-Nonene-1,4-diol, 8-Nonene-2,5-diol; 5-Heptene-1,2-diol, 2-ethenyl-6-methyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 5-Heptene-2,3-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 1,3-Propanediol, 2-methyl-2-(3-methyl-3-but enyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6-dimethyl-; 5-Hexene-1,2-diol, 2-ethyl-; 2,4-Nonadiene-4-d-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,6,7-d3-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,7-diol, 6-methyl-; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 1,3-Butanediol, 3-methyl-2-(4-pentenylidene)-; 1,3-Butanediol, 3-methyl-2-(4-pentenylidene)-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Nonene-1,4-diol; 2-Nonene-1,4-diol; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 5-Octene-1,3-diol; 7-Octene-1,3-diol, 2-methyl-; 4-Heptene-1,3-diol, 2-methyl-; 4-Octene-2,3-d2-1,2-diol; 4-Octene-2,3-d2-1,2-diol; 5-Heptene-1,2-diol, 3-methyl-; 5-Octene-1,2-diol; 3,7-Octadiene-1,6-diol, 2,6-dimethyl-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 1,7-Octadiene-4,5-diol, 4,5-dimethyl-; 1,7-Octadiene-4,5-diol, 4,5-dimethyl-; 5-Heptene-1,3-diol, 2-methyl-; 5-Heptene-1,3-diol, 2-methyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2-Heptene-1,5-diol, 6-methyl-; 2-Heptene-1,5-diol, 6-methyl-; 8,9-Decadiene-3,5-diol; 8,9-Decadiene-3,5-diol; 4,6-Nonadiene-1,3-diol, 8-methyl-; 3,5-Nonadiene-1,7-diol, 8-methyl-; 5-Heptene-1,3-diol, 2,4-dimethyl-; 2-Nonene-1,9-diol; 2-Nonene-1,9-diol; 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 3-Heptene-1,5-diol, 6-methyl-; 1,3-Pantanediol, 2-ethenyl-4-methyl-; 1,3-Pantanediol, 2-ethenyl-4-methyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 2,3,4-trimethyl-; 4-Pentene-1,2-diol, 2,3,3-trimethyl-; 1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-; 1,3-Propanediol, 2-(2-but enyl)-2-(2-propenyl)-; 5-Hexene-1,2-diol, 2-ethyl-; 1,4-Butanediol, 2-(4-methyl-3-pentenylidene)- ( $\beta$ -Acaridiol); 6-Heptene-1,3-diol, 2-methyl-; 2,6-Octadiene-1,8-diol-2-13C, 2,6-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Nonene-3,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 7-Octene-1,2-diol, 2-methyl-; 1-Nonene-3,5-diol; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 7-Octene-1,2-diol; 7-Octene-1,2-diol; 2,5-Octadiene-1,7-

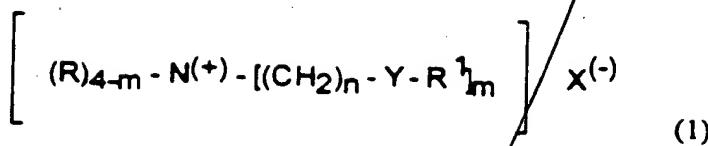
diol, 3,7-dimethyl-; 1,3-Propanediol, 2-(2,2-dimethylpropylidene)-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,8-Decadiene-1,10-diol; 6-Octene-1,5-diol, 7-methyl-1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 4-Hexene-1,2-diol, 4-ethyl-3-methyl-; 8-Nonene-1,3-diol; 1,4-Butanediol, 2-(3-methyl-2-butenyl)-3-methylene-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 8-Nonene-2,4-diol; 2,6-Heptanediol, 4-methylene-; 3-Hexene-3,4-diol, 2,5-dimethyl-; 4-Octene-4,5-diol; 5-Hexene-1,2-diol, 2,3-dimethyl-; 3-Hexene-1,6-diol, 2-ethenyl-2,5-dimethyl-; 3-Hexene-1,5-diol, 2,4-dimethyl-; 3-Hexene-1,5-diol, 2,4-dimethyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 3,6-Octadiene-1,2-diol, 3,7-dimethyl-; 7-Octene-2,3-diol, 6-methyl-; 7-Octene-2,3-diol, 6-methyl-; 7-Octene-2,3-diol, 6-methyl-; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 6-Octene-1,3-diol, 7-methyl-; Decadienediol; 6-Heptene-1,2-diol, 2,3-dimethyl-; 4-Hexene-1,3-diol, 3,5-dimethyl-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 1-Heptene-3,5-diol, 6,6-dimethyl-; 1-Heptene-3,5-diol, 6,6-dimethyl-; 1,3-Hexanediol, 5-methyl-4-methylene-; 4-Octene-1,2-diol; 2,3-Heptanediol, 3-ethenyl-; 2,3-Heptanediol, 3-ethenyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 3,7-dimethyl-; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 1,3-Octanediol, 2-methylene-; 8-Nonene-1,3-diol; 5-Heptene-1,4-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2,6-dimethyl-; 4-Octene-2,3-diol; 4-Octene-2,3-diol; 5,7-Octadiene-1,4-diol, 2,7-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 2-Heptene-1,5-diol, 5-ethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 1,3-Pantanediol, 2-ethenyl-3-ethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 8-Nonene-3,4-diol; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 4,5-dimethyl-; 5-Hexene-1,3-diol, 4,5-dimethyl-; 4,6-Octadiene-2,3-diol, 3,7-dimethyl-; 1,3-Butanediol, 2,2-diallyl-; 1,9-Decadiene-3,8-diol; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2,8-Decadiene-5,6-diol; 2,7-Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinalool); 6-Heptene-1,2-diol, 2-methyl-; 5-Hexene-1,3-diol, 2,3-dimethyl-; 2,6-Octadiene-1,8-diol, 6-methyl-2-(methyl-13C)-; 1,3-Propanediol, 2-(5-hexenyl)-; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 3-ethyl-; 7-Octene-3,4-diol; 6-Heptene-1,2-diol, 2-methyl-; 6-Heptene-2,4-diol, 4-(2-propenyl)-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridol); 8-Nonene-3,4-diol; 6-Heptene-2,3-diol, 6-methyl-; 6-Heptene-2,3-diol, 2,6-dimethyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 7-Octene-2,3-diol, 6-methyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 1,4-Heptanediol, 6-methyl-5-methylene-; 2-Butene-1,4-diol, 2-(4-methyl-3-pentenyl)- (α-Acaridiol); 4-Octene-1,2-diol; 4-Octene-1,2-diol; 7-Octene-2,4-diol; 6-Heptene-2,4-

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diol, 3-methyl-; 6-Heptene-2,4-diol, 3-methyl-; 3-Heptene-2,5-diol, 2,4-dimethyl-; 1,3-Butanediol, 2-(3-methyl-2-butenyl)-; 7-Octene-3,5-diol, 2-methyl-; 7-Octene-3,5-diol, 2-methyl-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 1,3-Propanediol, 2-methyl-2-(2-methylallyl)-; 2-Heptene-1,6-diol, 6-methyl-; 1,3-Butanediol, 2-allyl-3-methyl-; 2-Nonene-1,4-diol; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl-; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl-; 2-Nonene-1,4-diol; 5-Heptene-1,3-diol, 3,6-dimethyl-; 1,5-Hexanediol, 2-(1-methylethenyl)-; and 1,3-Propanediol, 2-(1-pentenyl)-.

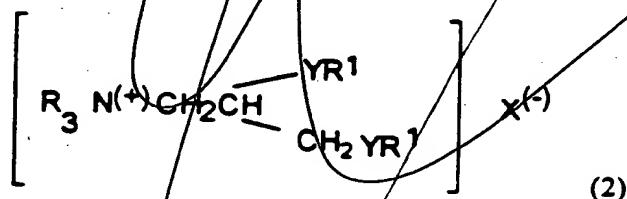
5. The material of Claim 1 that is a mixture of the compounds A., B., and/or C.
6. The material of Claim 1 which is a mixture of 8-carbon-diol isomers primarily consisting of: 2,2,4-trimethyl-1,3-pentanediol; 2-ethyl-1,3-hexanediol; 2,2-dimethyl-1,3-hexanediol; 2-ethyl-4-methyl-1,3-pentanediol; 2-ethyl-3-methyl-1,3-pentanediol; 3,5-octanediol; 2,2-dimethyl-2,4-hexanediol; 2-methyl-3,5-heptanediol; and/or 3-methyl-3,5-heptanediol, the level of any individual diol isomer being less than about 90% of any mixture.
7. The material of Claim 6 wherein the level of any individual diol isomer is less than about 80% of any mixture.
8. The material of Claim 6 wherein the level of any individual diol isomer is less than about 70% of any mixture.
9. The material of Claim 6 wherein the level of any individual diol isomer is less than about 60% of any mixture.
10. The material of Claim 6 wherein the level of any individual diol isomer is less than about 50% of any mixture.
11. An aqueous, stable, fabric softener composition comprising:
  - A. from about 2% to about 80% of fabric softener active selected from the group consisting of:
    1. fabric softener compound having the formula:

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wherein each R substituent is H, or a short chain C<sub>1</sub>-C<sub>6</sub> alkyl or hydroxyalkyl group, benzyl, or mixtures thereof; each m is 2 or 3, each n is from 1 to about 4; each Y is -O-(O)C-, -(R)N-(O)C-, -C(O)-N(R)-, or -C(O)-O-, but not -OC(O)O-; the sum of carbons in each R<sup>1</sup>, or YR<sup>1</sup> when Y is -O-(O)C- or -(R)N-(O)C-, being C<sub>6</sub>-C<sub>22</sub>, but when the sum of carbons in one R<sup>1</sup>, or YR<sup>1</sup>, is less than about 12, then the other R<sup>1</sup>, or YR<sup>1</sup>, sum is at least about 16, with each R<sup>1</sup> being a long chain hydrocarbyl, or substituted hydrocarbyl substituent group, and for R<sup>1</sup>, or YR<sup>1</sup>, C<sub>16</sub>-C<sub>20</sub> hydrocarbyl, or substituted hydrocarbyl substituent groups, the Iodine Value of a YR<sup>1</sup> fatty acid which contains this R<sup>1</sup> group is from about 20 to about 140, and for R<sup>1</sup>, or YR<sup>1</sup>, C<sub>8</sub>-C<sub>14</sub> hydrocarbyl, or substituted hydrocarbyl substituent groups, the Iodine Value of a fatty acid which contains this R<sup>1</sup> group is about 10 or less;

2. fabric softener compound having the formula:



wherein each Y, R, R<sup>1</sup>, and X<sup>(-)</sup> have the same meanings as before; and

3. mixtures thereof;

B. less than about 40% by weight of the composition of principal solvent having a ClogP of from about 0.15 to about 0.64, and at least some degree of asymmetry, said principal solvent containing insufficient amounts of solvents selected from the group consisting of: 2,2,4-trimethyl-1,3-pentane diol; the ethoxylate, diethoxylate, or triethoxylate derivatives of 2,2,4-trimethyl-1,3-pentane diol; and/or 2-ethylhexyl-1,3-diol, to provide an aqueous stable composition by themselves;

C. optionally, an effective amount, sufficient to improve clarity, of low molecular weight water soluble solvents like ethanol, isopropanol, propylene glycol, 1,3-propanediol, and propylene carbonate, said

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water soluble solvents being at a level that will not form clear compositions by themselves;

D. optionally, an effective amount to improve clarity, of water soluble calcium and/or magnesium salt; and

E. the balance being water.

12. The aqueous, stable, fabric softener composition of Claim 11 comprising:

A. from about 13% to about 75% of said fabric softener active selected from the group consisting of:

1. fabric softener compound having the formula:

$$\left[ (R)_{4-m} - N^{(+)} - [(CH_2)_n - Y - R^1]_m \right] X^{(-)} \quad (1)$$

wherein each R substituent is H, or a short chain C<sub>1</sub>-C<sub>3</sub> alkyl or hydroxyalkyl group, benzyl or mixtures thereof; each m is 2; each n is from 2 to about 3; each Y is -O-(O)C-; each R<sup>1</sup> is a long chain C<sub>9</sub>-C<sub>19</sub> hydrocarbyl, and for R<sup>1</sup> C<sub>15</sub>-C<sub>19</sub> hydrocarbyl or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of this R<sup>1</sup> group is from about 50 to about 130; and for R<sup>1</sup> C<sub>7</sub>-C<sub>13</sub>, or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of R<sup>1</sup> group is about 10 or less;

2. fabric softener compound having the formula:

$$\left[ R_3 N^{(+)} - CH_2 - CH - YR^1 - CH_2 - YR^1 \right] X^{(-)} \quad (2)$$

wherein each Y, R, R<sup>1</sup>, and X<sup>(-)</sup> have the same meanings as before; and

B. mixtures thereof;

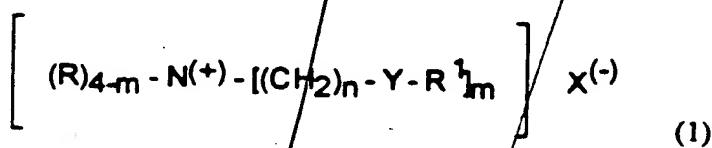
from about 10% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.25 to about 0.62;

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- C. optionally, from about 1% to about 10%, and sufficient to improve clarity, of low molecular weight water soluble solvents like ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate, said water soluble solvents being at a level that will not form clear compositions by themselves;
- D. optionally, from 0% to about 2%, and sufficient to improve clarity, achieve the desired viscosity, or improve clarity and achieve the desired viscosity, of water soluble calcium and/or magnesium salt; and
- E. from about 10% to about 80% water.

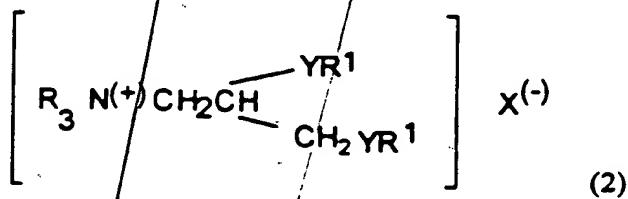
13. The aqueous, stable, fabric softener composition of Claim 12 comprising:

- A. from about 17% to about 70% of said fabric softener active selected from the group consisting of:
  - 1. fabric softener compound having the formula:



wherein each R substituent is H, or a short chain C<sub>1</sub>-C<sub>3</sub> alkyl or hydroxyalkyl group, benzyl or mixtures thereof; each m is 2; each n is from 2 to about 3; each Y is -O-(O)C-; each R<sup>1</sup> is a long chain C<sub>7</sub>-C<sub>17</sub> hydrocarbyl, or substituted hydrocarbyl substituent, and for R<sup>1</sup> C<sub>15</sub>-C<sub>17</sub> hydrocarbyl or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of this R<sup>1</sup> group is from about 70 to about 115; and for R<sup>1</sup> C<sub>7</sub>-C<sub>13</sub>, or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of R<sup>1</sup> group is about 5 or less;

- 2. fabric softener compound having the formula:



wherein each Y, R, R<sup>1</sup>, and X<sup>(-)</sup> have the same meanings as before; and

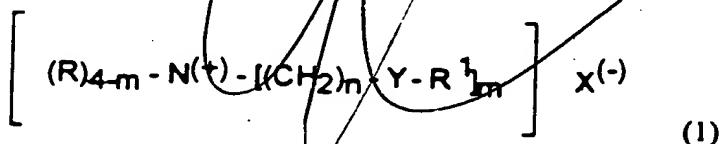
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- 3. mixtures thereof;
- B. from about 12% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.40 to about 0.60;
- C. optionally, from about 2% to 8%, and sufficient to improve clarity, of low molecular weight water soluble solvents like ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate;
- D. optionally, from about 0.05% to about 0.5%, and sufficient to improve clarity, achieve the desired viscosity, or improve clarity and achieve the desired viscosity, of water soluble calcium and/or magnesium salt; and
- E. from about 20% to about 80% water.

14. The aqueous, stable, fabric softener composition of Claim 13, said composition being clear and comprising:

- A. from about 19% to about 65% by weight of the composition, of said fabric softener:

- 1. fabric softener compound having the formula:



wherein each R substituent is methyl, ethyl, propyl, hydroxyethyl, benzyl or mixtures thereof; each n is 2; each R<sup>1</sup> is a long chain C<sub>13</sub>-C<sub>17</sub> straight chain alkyl or alkylene, and for R<sup>1</sup> C<sub>15</sub>-C<sub>17</sub> hydrocarbyl or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of this R<sup>1</sup> group is from about 70 to about 115;

- B. from about 14% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.40 to about 0.60;
- C. optionally, from about 2% to 8%, and sufficient to improve clarity, of low molecular weight water soluble solvents selected from the group consisting of ethanol, isopropanol, propylene glycol, 1,3-propanediol, and propylene carbonate;

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- D. optionally, from about 0.1% to about 0.25%, and sufficient to improve clarity, achieve the desired viscosity, or improve clarity and achieve the desired viscosity, of water soluble calcium or magnesium chloride, acetate, or nitrate; and
- E. from about 30% to about 70% water.

15. The composition of Claim 11 wherein said ClogP is from about 0.25 to about 0.62.

16. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of:  
n-propanol; 2-butanol; 2-methyl-2-propanol; and mixtures thereof.

17. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; 1,2-hexanediol; and mixtures thereof;

18. The composition of Claim 17 wherein said principal solvent is selected from the group consisting of:  
1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; 1,2-hexanediol; and mixtures thereof.

19. The composition of Claim 18 wherein said principal solvent is selected from the group consisting of:  
1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; and 1,2-hexanediol; and mixtures thereof.

20. The composition of Claim 19 wherein said principal solvent is 1,2-hexanediol.

21. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-

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methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,4-dimethyl-; 1,5-pentanediol, 3,3-dimethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; 1,6-heptanediol ; and mixtures thereof.

22. The composition of Claim 21 wherein said principal solvent is selected from the group consisting of:

1,3-propanediol, 2-butyl-; 1,4-butanediol, 2-propyl-; 1,5-pentanediol, 2-ethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; 1,6-heptanediol; and mixtures thereof.

23. The composition of Claim 22 wherein said principal solvent is selected from the group consisting of:

2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; and mixtures thereof.

24. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-butyl-2-methyl-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-



hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; 3,6-octanediol; and mixtures thereof.

25. The composition of Claim 24 wherein said principal solvent is selected from the group consisting of: 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-; 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 2,3,4-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-

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pentanediol, 2-ethyl-3-methyl-; 1,3-pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-ethyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; 3,6-octanediol; and mixtures thereof.

26. The composition of Claim 25 wherein said principal solvent is selected from the group consisting of:

1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-

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propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-. 1,3-pantanediol, 2,3,4-trimethyl-; 1,4-pantanediol, 2,3,4-trimethyl-; 1,5-pantanediol, 2,2,3-trimethyl-; 1,5-pantanediol, 2,2,4-trimethyl-; 1,5-pantanediol, 2,3,3-trimethyl-; 1,3-pantanediol, 2-ethyl-2-methyl-; 1,3-pantanediol, 2-ethyl-3-methyl-; 1,3-pantanediol, 2-ethyl-4-methyl-; 1,3-pantanediol, 3-ethyl-2-methyl-; 1,4-pantanediol, 2-ethyl-2-methyl-; 1,4-pantanediol, 2-ethyl-3-methyl-; 1,4-pantanediol, 2-ethyl-4-methyl-; 1,5-pantanediol, 3-ethyl-3-methyl-; 2,4-pantanediol, 3-ethyl-2-methyl-; 1,3-pantanediol, 2-isopropyl-; 1,3-pantanediol, 2-propyl-; 1,4-pantanediol, 2-isopropyl-; 1,4-pantanediol, 2-propyl-; 1,4-pantanediol, 3-isopropyl-; 2,4-pantanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,4-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,5-hexanediol, 5,5-dimethyl-; 1,6-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 2,6-heptanediol, 5-methyl-; 2,6-heptanediol, 6-methyl-;

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heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol; and mixtures thereof.

27. The composition of Claim 26 wherein said principal solvent is selected from the group consisting of: 2,4-pentanediol, 2,3,3,4-tetramethyl-; 2,4-pentanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; 2,5-hexanediol, 3,3,5-trimethyl-; and mixtures thereof.

28. The composition of Claim 27 wherein said principal solvent is 2,4-pentanediol, 2,3,3,4-tetramethyl-.

29. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 1,2-propanediol, 3-(n-pentyloxy)-; 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyloxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyloxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-phenyloxy-; 1,2-propanediol, 3-benzyloxy-; 1,2-propanediol, 3-(2-phenylethoxy)-; 1,2-propanediol, 3-(1-phenyl-2-propoxy)-; 1,3-propanediol, 2-phenyloxy-; 1,3-propanediol, 2-(m-cresyloxy)-; 1,3-propanediol, 2-(p-cresyloxy)-; 1,3-propanediol, 2-benzyloxy-; 1,3-propanediol, 2-(2-phenylethoxy)-; 1,3-propanediol, 2-(1-phenylethoxy)-; bis(2-hydroxybutyl)ether; bis(2-hydroxycyclopentyl)ether; and mixtures thereof.

30. The composition of Claim 29 wherein said principal solvent is selected from the group consisting of:

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1,2-propanediol, 3-(n-pentyloxy)-; 1,2-propanediol, 3-(2-pentyloxy)-, 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyoxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyoxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-phenyloxy-; 1,2-propanediol, 3-benzylxy-; 1,2-propanediol, 3-(2-phenylethoxy)-; 1,3-propanediol, 2-(m-cresyloxy)-; 1,3-propanediol, 2-(p-cresyloxy)-; 1,3-propanediol, 2-benzylxy-; 1,3-propanediol, 2-(2-phenylethoxy)-; bis(2-hydroxybutyl)ether; bis(2-hydroxycyclopentyl)ether; and mixtures thereof.

31. The composition of Claim 30 wherein said principal solvent is selected from the group consisting of:

1,2-propanediol, 3-(n-pentyloxy)-; 1,2-propanediol, 3-(2-pentyloxy)-, 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyoxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyoxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-phenyloxy-; 1,2-propanediol, 3-benzylxy-; 1,2-propanediol, 3-(2-phenylethoxy)-; 1,3-propanediol, 2-(m-cresyloxy)-; 1,3-propanediol, 2-(p-cresyloxy)-; 1,3-propanediol, 2-(2-phenylethoxy)-; bis(2-hydroxybutyl)ether; bis(2-hydroxycyclopentyl)ether; and mixtures thereof.

32. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 1-isopropyl-1,2-cyclobutanediol; 3-ethyl-4-methyl-1,2-cyclobutanediol; 3-propyl-1,2-cyclobutanediol; 3-isopropyl-1,2-

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cyclobutanediol; 1-ethyl-1,2-cyclopentanediol; 1,2-dimethyl-1,2-cyclopentanediol; 1,4-dimethyl-1,2-cyclopentanediol; 2,4,5-trimethyl-1,3-cyclopentanediol; 3,3-dimethyl-1,2-cyclopentanediol; 3,4-dimethyl-1,2-cyclopentanediol; 3,5-dimethyl-1,2-cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-cyclopentanediol; 1,1-bis(hydroxymethyl)cyclohexane; 1,2-bis(hydroxymethyl)cyclohexane; 1,2-dimethyl-1,3-cyclohexanediol; 1,3-bis(hydroxymethyl)cyclohexane; 1,3-dimethyl-1,3-cyclohexanediol; 1,6-dimethyl-1,3-cyclohexanediol; 1-hydroxy-cyclohexaneethanol; 1-hydroxy-cyclohexanemethanol; 1-ethyl-1,3-cyclohexanediol; 1-methyl-1,2-cyclohexanediol; 2,2-dimethyl-1,3-cyclohexanediol; 2,3-dimethyl-1,4-cyclohexanediol; 2,4-dimethyl-1,3-cyclohexanediol; 2,5-dimethyl-1,3-cyclohexanediol; 2,6-dimethyl-1,4-cyclohexanediol; 2-ethyl-1,3-cyclohexanediol; 2-hydroxycyclohexaneethanol; 2-hydroxyethyl-1-cyclohexanol; 2-hydroxymethylcyclohexanol; 3-hydroxyethyl-1-cyclohexanol; 3-hydroxycyclohexaneethanol; 3-hydroxymethylcyclohexanol; 3-methyl-1,2-cyclohexanediol; 4,4-dimethyl-1,3-cyclohexanediol; 4,5-dimethyl-1,3-cyclohexanediol; 4,6-dimethyl-1,3-cyclohexanediol; 4-ethyl-1,3-cyclohexanediol; 4-hydroxyethyl-1-cyclohexanol; 4-hydroxymethylcyclohexanol; 4-methyl-1,2-cyclohexanediol; 5,5-dimethyl-1,3-cyclohexanediol; 5-ethyl-1,3-cyclohexanediol; 1,2-cycloheptanediol; 2-methyl-1,3-cycloheptanediol; 2-methyl-1,4-cycloheptanediol; 4-methyl-1,3-cycloheptanediol; 5-methyl-1,3-cycloheptanediol; 5-methyl-1,4-cycloheptanediol; 6-methyl-1,4-cycloheptanediol; 1,3-cyclooctanediol; 1,4-cyclooctanediol; 1,5-cyclooctanediol; 1,2-cyclohexanediol, diethoxylate; 1,2-cyclohexanediol, triethoxylate; 1,2-cyclohexanediol, tetraethoxylate; 1,2-cyclohexanediol, pentaethoxylate; 1,2-cyclohexanediol, hexaethoxylate; 1,2-cyclohexanediol, heptaethoxylate; 1,2-cyclohexanediol, octaethoxylate; 1,2-cyclohexanediol, nonaethoxylate; 1,2-cyclohexanediol, monopropoxylate; 1,2-cyclohexanediol, monobutyleneoxylate; 1,2-cyclohexanediol, dibutyleneoxylate; 1,2-cyclohexanediol, tributyleneoxylate; 1,2-cyclobutanediol, 1-ethenyl-2-ethyl-; 3-cyclobutene-1,2-diol, 1,2,3,4-tetramethyl-; 3-cyclobutene-1,2-diol, 3,4-diethyl-; 3-cyclobutene-1,2-diol, 3-(1,1-dimethylethyl)-; 3-cyclobutene-1,2-diol, 3-butyl-; 1,2-cyclopentanediol, 1,2-dimethyl-4-methylene-; 1,2-cyclopentanediol, 1-ethyl-3-methylene-; 1,2-cyclopentanediol, 4-(1-propenyl); 3-cyclopentene-1,2-diol, 1-ethyl-3-methyl-; 1,2-cyclohexanediol, 1-ethenyl-; 1,2-cyclohexanediol, 1-methyl-3-methylene-; 1,2-cyclohexanediol, 1-methyl-4-methylene-; 1,2-cyclohexanediol, 3-ethenyl-; 1,2-cyclohexanediol, 4-ethenyl-; 3-cyclohexene-1,2-diol, 2,6-dimethyl-; 3-cyclohexene-1,2-diol, 6,6-dimethyl-; 4-cyclohexene-1,2-diol, 3,6-dimethyl-; 4-

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cyclohexene-1,2-diol, 4,5-dimethyl-; 3-cyclooctene-1,2-diol; 4-cyclooctene-1,2-diol; 5-cyclooctene-1,2-diol; and mixtures thereof.

33. The composition of Claim 32 wherein said principal solvent is selected from the group consisting of:

1-isopropyl-1,2-cyclobutanediol; 3-ethyl-4-methyl-1,2-cyclobutanediol; 3-propyl-1,2-cyclobutanediol; 3-isopropyl-1,2-cyclobutanediol; 1-ethyl-1,2-cyclopentanediol; 1,2-dimethyl-1,2-cyclopentanediol; 1,4-dimethyl-1,2-cyclopentanediol; 3,3-dimethyl-1,2-cyclopentanediol; 3,4-dimethyl-1,2-cyclopentanediol; 3,5-dimethyl-1,2-cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-cyclopentanediol; 1,1-bis(hydroxymethyl)cyclohexane; 1,2-bis(hydroxymethyl)cyclohexane; 1,2-dimethyl-1,3-cyclohexanediol; 1,3-bis(hydroxymethyl)cyclohexane; 1-hydroxy-cyclohexanemethanol; 1-methyl-1,2-cyclohexanediol; 3-hydroxymethylcyclohexanol; 3-methyl-1,2-cyclohexanediol; 4,4-dimethyl-1,3-cyclohexanediol; 4,5-dimethyl-1,3-cyclohexanediol; 4,6-dimethyl-1,3-cyclohexanediol; 4-ethyl-1,3-cyclohexanediol; 4-hydroxyethyl-1-cyclohexanol; 4-hydroxymethylcyclohexanol; 4-methyl-1,2-cyclohexanediol; 1,2-cycloheptanediol; 1,2-cyclohexanediol, pentaethoxylate; 1,2-cyclohexanediol, hexaethoxylate; 1,2-cyclohexanediol, heptaethoxylate; 1,2-cyclohexanediol, octaethoxylate; 1,2-cyclohexanediol, nonaethoxylate; 1,2-cyclohexanediol, monopropoxylate; 1,2-cyclohexanediol, dibutyleneoxylate; and mixtures thereof.

34. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of:

1. 1,2-propanediol (C3) 2(Me-E<sub>1-4</sub>); 1,2-propanediol (C3) PO<sub>4</sub>; 1,2-propanediol, 2-methyl- (C4) (Me-E<sub>4-10</sub>); 1,2-propanediol, 2-methyl- (C4) 2(Me-E<sub>1</sub>); 1,2-propanediol, 2-methyl- (C4) PO<sub>3</sub>; 1,2-propanediol, 2-methyl- (C4) BO<sub>1</sub>; 1,3-propanediol (C3) 2(Me-E<sub>6-8</sub>); 1,3-propanediol (C3) PO<sub>5-6</sub>; 1,3-propanediol, 2,2-diethyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2,2-diethyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2,2-diethyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me E<sub>1-2</sub>); 1,3-propanediol, 2,2-dimethyl- (C5) PO<sub>3-4</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-ethyl- (C5) (Me E<sub>6-10</sub>); 1,3-propanediol, 2-ethyl- (C5) 2(Me E<sub>1</sub>); 1,3-propanediol, 2-ethyl- (C5) PO<sub>3</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-ethyl-2-methyl- (C6) PO<sub>2</sub>; 1,3-

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propanediol, 2-ethyl-2-methyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-isopropyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-isopropyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-isopropyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-methyl- (C4) 2(Me E<sub>2-5</sub>); 1,3-propanediol, 2-methyl- (C4) PO<sub>4-5</sub>; 1,3-propanediol, 2-methyl- (C4) BO<sub>2</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E<sub>2-9</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) n-BO<sub>1-3</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-propyl- (C6) (Me E<sub>1-4</sub>); 1,3-propanediol, 2-propyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-propyl- (C6) BO<sub>1</sub>.

2. 1,2-butanediol (C4) (Me E<sub>2-8</sub>); 1,2-butanediol (C4) PO<sub>2-3</sub>; 1,2-butanediol (C4) BO<sub>1</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1-2</sub>; 1,2-butanediol, 2-ethyl- (C6) E<sub>1-3</sub>; 1,2-butanediol, 2-ethyl- (C6) n-BO<sub>1</sub>; 1,2-butanediol, 2-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 2-methyl- (C5) PO<sub>1</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) n-BO<sub>1-2</sub>; 1,2-butanediol, 3-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 3-methyl- (C5) PO<sub>1</sub>; 1,3-butanediol (C4) 2(Me E<sub>3-6</sub>); 1,3-butanediol (C4) PO<sub>5</sub>; 1,3-butanediol (C4) BO<sub>2</sub>; 1,3-butanediol, 2,2,3-trimethyl- (C7) (Me E<sub>1-3</sub>); 1,3-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1-2</sub>; 1,3-butanediol, 2,2-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,2-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2,3-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,3-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2-ethyl- (C6) (Me E<sub>1-6</sub>); 1,3-butanediol, 2-ethyl- (C6) PO<sub>2-3</sub>; 1,3-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-isopropyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-isopropyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 2-methyl- (C5) PO<sub>4</sub>; 1,3-butanediol, 2-propyl- (C7) E<sub>2-9</sub>; 1,3-butanediol, 2-propyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-propyl- (C7) n-BO<sub>1-3</sub>; 1,3-butanediol, 3-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 3-methyl- (C5) PO<sub>4</sub>; 1,4-butanediol (C4) 2(Me E<sub>2-4</sub>); 1,4-butanediol (C4) PO<sub>4-5</sub>; 1,4-butanediol (C4) BO<sub>2</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO<sub>1-3</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,2-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,3-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl- (C6) (Me E<sub>1-4</sub>); 1,4-butanediol, 2-ethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) E<sub>1-7</sub>; 1,4-

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butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-isopropyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-isopropyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-methyl- (C5) (Me E<sub>6-10</sub>); 1,4-butanediol, 2-methyl- (C5) 2(Me E<sub>1</sub>); 1,4-butanediol, 2-methyl- (C5) PO<sub>3</sub>; 1,4-butanediol, 2-methyl- (C5) BO<sub>1</sub>; 1,4-butanediol, 2-propyl- (C7) E<sub>1-5</sub>; 1,4-butanediol, 2-propyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO<sub>1-3</sub>; 2,3-butanediol (C4) (Me E<sub>6-10</sub>); 2,3-butanediol (C4) 2(Me E<sub>1</sub>); 2,3-butanediol (C4) PO<sub>3-4</sub>; 2,3-butanediol (C4) BO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) E<sub>3-9</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) PO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1-3</sub>; 2,3-butanediol, 2-methyl- (C5) (Me E<sub>1-5</sub>); 2,3-butanediol, 2-methyl- (C5) PO<sub>2</sub>; 2,3-butanediol, 2-methyl- (C5) BO<sub>1</sub>;

3. 1,2-pentanediol (C5) E<sub>3-10</sub>; 1,2-pentanediol, (C5) PO<sub>1</sub>; 1,2-pentanediol, (C5) n-BO<sub>2-3</sub>; 1,2-pentanediol, 2-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 2-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 2-methyl (C6) BO<sub>1</sub>; 1,2-pentanediol, 3-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 3-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 4-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 4-methyl (C6) n-BO<sub>1</sub>; 1,3-pentanediol (C5) 2(Me-E<sub>1-2</sub>); 1,3-pentanediol (C5) PO<sub>3-4</sub>; 1,3-pentanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2-ethyl- (C7) E<sub>2-9</sub>; 1,3-pentanediol, 2-ethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2-ethyl- (C7) n-BO<sub>1-3</sub>; 1,3-pentanediol, 2-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,3-pentanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,3-pentanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,3-pentanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 3,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 3-methyl- (C6) (Me-E<sub>1-6</sub>); 1,3-pentanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,3-pentanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,3-pentanediol, 4,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 4,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 4,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 4-methyl- (C6) (Me-E<sub>1-6</sub>); 1,3-pentanediol, 4-methyl- (C6) PO<sub>2-3</sub>; 1,3-pentanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,4-pentanediol, (C5) 2(Me-E<sub>1-2</sub>); 1,4-pentanediol, (C5) PO<sub>3-4</sub>; 1,4-pentanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pentanediol, 2,3-dimethyl- (C7)

PO<sub>1</sub>; 1,4-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 2-methyl- (C6) (Me-E<sub>1-6</sub>); 1,4-pantanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pantanediol, 3-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,4-pantanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, 4-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,4-pantanediol, 4-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,5-pantanediol, (C5) (Me-E<sub>4-10</sub>); 1,5-pantanediol (C5) 2(Me-E<sub>1</sub>); 1,5-pantanediol (C5) PO<sub>3</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2-ethyl- (C7) E<sub>1-5</sub>; 1,5-pantanediol, 2-ethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2-methyl- (C6) (Me-E<sub>1-4</sub>); 1,5-pantanediol, 2-methyl- (C6) PO<sub>2</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 3-methyl- (C6) (Me-E<sub>1-4</sub>); 1,5-pantanediol, 3-methyl- (C6) PO<sub>2</sub>; 2,3-pantanediol, (C5) (Me-E<sub>1-3</sub>); 2,3-pantanediol, (C5) PO<sub>2</sub>; 2,3-pantanediol, 2-methyl- (C6) E<sub>1-7</sub>; 2,3-pantanediol, 2-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 2-methyl- (C6) n-BO<sub>1-2</sub>; 2,3-pantanediol, 3-methyl- (C6) E<sub>1-7</sub>; 2,3-pantanediol, 3-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 3-methyl- (C6) n-BO<sub>1-2</sub>; 2,4-pantanediol, (C5) 2(Me-E<sub>1-4</sub>); 2,4-pantanediol (C5) PO<sub>4</sub>; 2,4-pantanediol, 2,3-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pantanediol, 2,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pantanediol, 2,4-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pantanediol, 2,4-dimethyl- (C7) PO<sub>2</sub>; 2,4-pantanediol, 2-methyl- (C7) (Me-E<sub>5-10</sub>); 2,4-pantanediol, 2-methyl- (C7) PO<sub>3</sub>; 2,4-pantanediol, 3,3-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pantanediol, 3,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pantanediol, 3-methyl- (C6) (Me-E<sub>5-10</sub>); 2,4-pantanediol, 3-methyl- (C6) PO<sub>3</sub>;

4. 1,3-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,3-hexanediol (C6) PO<sub>2</sub>; 1,3-hexanediol (C6) BO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 2-methyl- (C7) BO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 4-methyl- (C7)

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~~E<sub>2-9</sub>; 1,3-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,4-hexanediol (C6) PO<sub>2</sub>; 1,4-hexanediol (C6) BO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,5-hexanediol (C6) PO<sub>2</sub>; 1,5-hexanediol (C6) BO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,6-hexanediol (C6) (Me-E<sub>1-2</sub>); 1,6-hexanediol (C6) PO<sub>1-2</sub>; 1,6-hexanediol (C6) n-BO<sub>4</sub>; 1,6-hexanediol, 2-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 2-methyl- (C7) n-BO<sub>1-2</sub>; 1,6-hexanediol, 3-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 3-methyl- (C7) n-BO<sub>1-2</sub>; 2,3-hexanediol (C6) E<sub>1-5</sub>; 2,3-hexanediol (C6) n-BO<sub>1</sub>; 2,3-hexanediol (C6) BO<sub>1</sub>; 2,4-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,4-hexanediol (C6) PO<sub>3</sub>; 2,4-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 4-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 4-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 5-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 5-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,5-hexanediol (C6) PO<sub>3</sub>; 2,5-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 3,4-hexanediol (C6) EO<sub>1-5</sub>; 3,4-hexanediol (C6) n-BO<sub>1</sub>; 3,4-hexanediol (C6) BO<sub>1</sub>;~~

5. ~~1,3-heptanediol (C7) E<sub>1-7</sub>; 1,3-heptanediol (C7) PO<sub>1</sub>; 1,3-heptanediol (C7) n-BO<sub>1-2</sub>; 1,4-heptanediol (C7) E<sub>1-7</sub>; 1,4-heptanediol (C7) PO<sub>1</sub>; 1,4-heptanediol (C7) n-BO<sub>1-2</sub>; 1,5-heptanediol (C7) E<sub>1-7</sub>; 1,5-heptanediol (C7) PO<sub>1</sub>; 1,5-heptanediol (C7) n-BO<sub>1-2</sub>; 1,6-heptanediol (C7) E<sub>1-7</sub>; 1,6-heptanediol (C7) PO<sub>1</sub>; 1,6-heptanediol (C7) n-BO<sub>1-2</sub>; 1,7-heptanediol (C7) E<sub>1-2</sub>; 1,7-heptanediol (C7) n-BO<sub>1</sub>; 2,4-heptanediol (C7) E<sub>3-10</sub>; 2,4-heptanediol (C7) (Me-E<sub>1</sub>); 2,4-heptanediol (C7) PO<sub>1</sub>; 2,4-heptanediol (C7) n-BO<sub>3</sub>; 2,5-heptanediol (C7) E<sub>3-10</sub>; 2,5-heptanediol (C7) (Me-E<sub>1</sub>); 2,5-heptanediol (C7) PO<sub>1</sub>; 2,5-heptanediol (C7) n-~~

BO<sub>3</sub>; 2,6-heptanediol (C7) E<sub>3-10</sub>; 2,6-heptanediol (C7) (Me-E<sub>1</sub>); 2,6-heptanediol (C7) PO<sub>1</sub>; 2,6-heptanediol (C7) n-BO<sub>3</sub>; 3,5-heptanediol (C7) E<sub>3-10</sub>; 3,5-heptanediol (C7) (Me-E<sub>1</sub>); 3,5-heptanediol (C7) PO<sub>1</sub>; 3,5-heptanediol (C7) n-BO<sub>3</sub>;

6. 1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO<sub>1</sub>; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO<sub>1</sub>; 1,3-butanediol, 2,2-diethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 3,5-heptanediol, 3-methyl- (C8) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 3,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 3,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-pentanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-hexanediol, 4-ethyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 3,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,4-

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butanediol, 3-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-hexanediol, 4-ethyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; and/or 3,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; and

7. mixtures thereof.

35. The composition of Claim 34 wherein said principal solvent is selected from the group consisting of:

1. 1,2-propanediol (C3) 2(Me-E<sub>2-4</sub>); 1,2-propanediol (C3) PO<sub>4</sub>; 1,2-propanediol, 2-methyl- (C4) (Me-E<sub>8-10</sub>); 1,2-propanediol, 2-methyl- (C4) 2(Me-E<sub>1</sub>); 1,2-propanediol, 2-methyl- (C4) PO<sub>3</sub>; 1,3-propanediol (C3) 2(Me-E<sub>8</sub>); 1,3-propanediol (C3) PO<sub>6</sub>; 1,3-propanediol, 2,2-diethyl- (C7) E<sub>4-7</sub>; 1,3-propanediol, 2,2-diethyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2,2-diethyl- (C7) n-BO<sub>2</sub>; 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me-E<sub>1-2</sub>); 1,3-propanediol, 2,2-dimethyl- (C5) PO<sub>4</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) E<sub>4-7</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) n-BO<sub>2</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) E<sub>4-7</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) n-BO<sub>2</sub>; 1,3-propanediol, 2-ethyl- (C5) (Me E<sub>9-10</sub>); 1,3-propanediol, 2-ethyl- (C5) 2(Me E<sub>1</sub>); 1,3-propanediol, 2-ethyl- (C5) PO<sub>3</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E<sub>3-6</sub>); 1,3-propanediol, 2-ethyl-2-methyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-isopropyl- (C6) (Me E<sub>3-6</sub>); 1,3-propanediol, 2-isopropyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-isopropyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-methyl- (C4) 2(Me E<sub>4-5</sub>); 1,3-propanediol, 2-methyl- (C4) PO<sub>5</sub>; 1,3-propanediol, 2-methyl- (C4) BO<sub>2</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E<sub>6-9</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) n-BO<sub>2-3</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) E<sub>4-7</sub>; 1,3-propanediol, 2-methyl-2-propyl-

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(C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO<sub>2</sub>; 1,3-propanediol, 2-propyl- (C6) (Me E<sub>1-4</sub>); 1,3-propanediol, 2-propyl- (C6) PO<sub>2</sub>;

2. 1,2-butanediol (C4) (Me E<sub>6-8</sub>); 1,2-butanediol (C4) PO<sub>2-3</sub>; 1,2-butanediol (C4) BO<sub>1</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) E<sub>2-5</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1</sub>; 1,2-butanediol, 2-ethyl- (C6) E<sub>1-3</sub>; 1,2-butanediol, 2-ethyl- (C6) n-BO<sub>1</sub>; 1,2-butanediol, 2-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 2-methyl- (C5) PO<sub>1</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) E<sub>2-5</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) n-BO<sub>1</sub>; 1,2-butanediol, 3-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 3-methyl- (C5) PO<sub>1</sub>; 1,3-butanediol (C4) 2(Me E<sub>5-6</sub>); 1,3-butanediol (C4) BO<sub>2</sub>; 1,3-butanediol, 2,2,3-trimethyl- (C7) (Me E<sub>1-3</sub>); 1,3-butanediol, 2,2,3-trimethyl- (C7) PO<sub>2</sub>; 1,3-butanediol, 2,2-dimethyl- (C6) (Me E<sub>6-8</sub>); 1,3-butanediol, 2,2-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2,3-dimethyl- (C6) (Me E<sub>6-8</sub>); 1,3-butanediol, 2,3-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2-ethyl- (C6) (Me E<sub>4-6</sub>); 1,3-butanediol, 2-ethyl- (C6) PO<sub>2-3</sub>; 1,3-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>3</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) n-BO<sub>3</sub>; 1,3-butanediol, 2-isopropyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-isopropyl- (C7) n-BO<sub>3</sub>; 1,3-butanediol, 2-methyl- (C5) 2(Me E<sub>2-3</sub>); 1,3-butanediol, 2-methyl- (C5) PO<sub>4</sub>; 1,3-butanediol, 2-propyl- (C7) E<sub>6-8</sub>; 1,3-butanediol, 2-propyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-propyl- (C7) n-BO<sub>2-3</sub>; 1,3-butanediol, 3-methyl- (C5) 2(Me E<sub>2-3</sub>); 1,3-butanediol, 3-methyl- (C5) PO<sub>4</sub>; 1,4-butanediol (C4) 2(Me E<sub>3-4</sub>); 1,4-butanediol (C4) PO<sub>4-5</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) E<sub>6-9</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO<sub>2</sub>; 3; 1,4-butanediol, 2,2-dimethyl- (C6) (Me E<sub>3-6</sub>); 1,4-butanediol, 2,2-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E<sub>3-6</sub>); 1,4-butanediol, 2,3-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl- (C6) (Me E<sub>1-4</sub>); 1,4-butanediol, 2-ethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) E<sub>4-7</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>2</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) E<sub>4-7</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-isopropyl- (C7) E<sub>4-7</sub>; 1,4-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-isopropyl- (C7) n-BO<sub>2</sub>; 1,4-butanediol, 2-methyl- (C5) (Me E<sub>9-10</sub>); 1,4-butanediol, 2-methyl- (C5) 2(Me E<sub>1</sub>); 1,4-butanediol, 2-methyl- (C5) PO<sub>3</sub>; 1,4-butanediol, 2-propyl- (C7) E<sub>2-5</sub>; 1,4-butanediol, 2-propyl- (C7) n-BO<sub>1</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E<sub>6-8</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO<sub>2-3</sub>; 2,3-butanediol

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(C4) (Me E9-10); 2,3-butanediol (C4) 2(Me E<sub>1</sub>); 2,3-butanediol (C4) PO<sub>3-4</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) E<sub>7-9</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) PO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) BO<sub>2-3</sub>; 2,3-butanediol, 2-methyl- (C5) (Me E<sub>2-5</sub>); 2,3-butanediol, 2-methyl- (C5) PO<sub>2</sub>; 2,3-butanediol, 2-methyl- (C5) BO<sub>1</sub>;

3. 1,2-pantanediol (C5) E<sub>7-10</sub>; 1,2-pantanediol, (C5) PO<sub>1</sub>; 1,2-pantanediol, (C5) n-BO<sub>3</sub>; 1,2-pantanediol, 2-methyl (C6) E<sub>1-3</sub>; 1,2-pantanediol, 2-methyl (C6) n-BO<sub>1</sub>; 1,2-pantanediol, 3-methyl (C6) E<sub>1-3</sub>; 1,2-pantanediol, 3-methyl (C6) n-BO<sub>1</sub>; 1,2-pantanediol, 4-methyl (C6) E<sub>1-3</sub>; 1,2-pantanediol, 4-methyl (C6) n-BO<sub>1</sub>; 1,3-pantanediol (C5) 2(Me-E<sub>1-2</sub>); 1,3-pantanediol (C5) PO<sub>3-4</sub>; 1,3-pantanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 2,2-dimethyl- (C7) n-BO<sub>3</sub>; 1,3-pantanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>3</sub>; 1,3-pantanediol, 2-ethyl- (C7) E<sub>6-8</sub>; 1,3-pantanediol, 2-ethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 2-ethyl- (C7) n-BO<sub>2-3</sub>; 1,3-pantanediol, 2-methyl- (C6) 2(Me-E<sub>4-6</sub>); 1,3-pantanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,3-pantanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 3,4-dimethyl- (C7) n-BO<sub>3</sub>; 1,3-pantanediol, 3-methyl- (C6) 2(Me-E<sub>4-6</sub>); 1,3-pantanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,3-pantanediol, 4,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 4,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 4,4-dimethyl- (C7) n-BO<sub>3</sub>; 1,3-pantanediol, 4-methyl- (C6) 2(Me-E<sub>4-6</sub>); 1,3-pantanediol, 4-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, (C5) 2(Me-E<sub>1-2</sub>); 1,4-pantanediol, (C5) PO<sub>3-4</sub>; 1,4-pantanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,2-dimethyl- (C7) n-BO<sub>3</sub>; 1,4-pantanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>3</sub>; 1,4-pantanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>3</sub>; 1,4-pantanediol, 2-methyl- (C6) (Me-E<sub>4-6</sub>); 1,4-pantanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>3</sub>; 1,4-pantanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,4-dimethyl- (C7) n-BO<sub>3</sub>; 1,4-pantanediol, 3-methyl- (C6) 2(Me-E<sub>4-6</sub>); 1,4-pantanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 4-methyl- (C6) 2(Me-E<sub>4-6</sub>); 1,4-pantanediol, 4-methyl- (C6) PO<sub>2-3</sub>; 1,5-pantanediol, (C5) (Me-E<sub>8-10</sub>); 1,5-pantanediol (C5) 2(Me-E<sub>1</sub>); 1,5-pantanediol (C5) PO<sub>3</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) E<sub>4-7</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) n-BO<sub>2</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) E<sub>4-7</sub>;

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1,5-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>2</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) E<sub>4-7</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>2</sub>; 1,5-pantanediol, 2-ethyl- (C7) E<sub>2-5</sub>; 1,5-pantanediol, 2-ethyl- (C7) n-BO<sub>1</sub>; 1,5-pantanediol, 2-methyl- (C6) (Me-E<sub>1-4</sub>); 1,5-pantanediol, 2-methyl- (C6) PO<sub>2</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) E<sub>4-7</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>2</sub>; 1,5-pantanediol, 3-methyl- (C6) (Me-E<sub>1-4</sub>); 1,5-pantanediol, 3-methyl- (C6) PO<sub>2</sub>; 2,3-pantanediol, (C5) (Me-E<sub>1-3</sub>); 2,3-pantanediol, (C5) PO<sub>2</sub>; 2,3-pantanediol, 2-methyl- (C6) E<sub>4-7</sub>; 2,3-pantanediol, 2-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 2-methyl- (C6) n-BO<sub>2</sub>; 2,3-pantanediol, 3-methyl- (C6) E<sub>4-7</sub>; 2,3-pantanediol, 3-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 3-methyl- (C6) n-BO<sub>2</sub>; 2,3-pantanediol, 4-methyl- (C6) E<sub>4-7</sub>; 2,3-pantanediol, 4-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 4-methyl- (C6) n-BO<sub>2</sub>; 2,4-pantanediol, (C5) 2(Me-E<sub>2-4</sub>); 2,4-pantanediol (C5) PO<sub>4</sub>; 2,4-pantanediol, 2,3-dimethyl- (C7) (Me-E<sub>2-4</sub>); 2,4-pantanediol, 2,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pantanediol, 2,4-dimethyl- (C7) (Me-E<sub>2-4</sub>); 2,4-pantanediol, 2,4-dimethyl- (C7) PO<sub>2</sub>; 2,4-pantanediol, 2-methyl- (C7) (Me-E<sub>8-10</sub>); 2,4-pantanediol, 2-methyl- (C7) PO<sub>3</sub>; 2,4-pantanediol, 3,3-dimethyl- (C7) (Me-E<sub>2-4</sub>); 2,4-pantanediol, 3,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pantanediol, 3-methyl- (C6) (Me-E<sub>8-10</sub>); 2,4-pantanediol, 3-methyl- (C6) PO<sub>3</sub>;

4. 1,3-hexanediol (C6) (Me-E<sub>2-5</sub>); 1,3-hexanediol (C6) PO<sub>2</sub>; 1,3-hexanediol (C6) BO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) E<sub>6-8</sub>; 1,3-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) n-BO<sub>2-3</sub>; 1,3-hexanediol, 3-methyl- (C7) E<sub>6-8</sub>; 1,3-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) n-BO<sub>2-3</sub>; 1,3-hexanediol, 4-methyl- (C7) E<sub>6-8</sub>; 1,3-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 4-methyl- (C7) n-BO<sub>2-3</sub>; 1,3-hexanediol, 5-methyl- (C7) E<sub>6-8</sub>; 1,3-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 5-methyl- (C7) n-BO<sub>2-3</sub>; 1,4-hexanediol (C6) (Me-E<sub>2-5</sub>); 1,4-hexanediol (C6) PO<sub>2</sub>; 1,4-hexanediol (C6) BO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) E<sub>6-8</sub>; 1,4-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) n-BO<sub>2-3</sub>; 1,4-hexanediol, 3-methyl- (C7) E<sub>6-8</sub>; 1,4-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 3-methyl- (C7) n-BO<sub>2-3</sub>; 1,4-hexanediol, 4-methyl- (C7) E<sub>6-8</sub>; 1,4-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 4-methyl- (C7) n-BO<sub>2-3</sub>; 1,4-hexanediol, 5-methyl- (C7) E<sub>6-8</sub>; 1,4-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 5-methyl- (C7) n-BO<sub>2-3</sub>; 1,5-hexanediol (C6) (Me-E<sub>2-5</sub>); 1,5-hexanediol (C6) PO<sub>2</sub>; 1,5-hexanediol (C6) BO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) E<sub>6-8</sub>; 1,5-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) n-BO<sub>2-3</sub>; 1,5-hexanediol, 3-methyl- (C7) E<sub>6-8</sub>; 1,5-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 3-methyl- (C7) n-BO<sub>2-3</sub>; 1,5-

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hexanediol, 4-methyl- (C7) E<sub>6-8</sub>; 1,5-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 4-methyl- (C7) n-BO<sub>2-3</sub>; 1,5-hexanediol, 5-methyl- (C7) E<sub>6-8</sub>; 1,5-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 5-methyl- (C7) n-BO<sub>2-3</sub>; 1,6-hexanediol (C6) (Me-E<sub>1-2</sub>); 1,6-hexanediol (C6) PO<sub>1-2</sub>; 1,6-hexanediol (C6) n-BO<sub>4</sub>; 1,6-hexanediol, 2-methyl- (C7) E<sub>2-5</sub>; 1,6-hexanediol, 2-methyl- (C7) n-BO<sub>1</sub>; 1,6-hexanediol, 3-methyl- (C7) E<sub>2-5</sub>; 1,6-hexanediol, 3-methyl- (C7) n-BO<sub>1</sub>; 2,3-hexanediol (C6) E<sub>2-5</sub>; 2,3-hexanediol (C6) n-BO<sub>1</sub>; 2,4-hexanediol (C6) (Me-E<sub>5-8</sub>); 2,4-hexanediol (C6) PO<sub>3</sub>; 2,4-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 4-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 4-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 5-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 5-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol (C6) (Me-E<sub>5-8</sub>); 2,5-hexanediol (C6) PO<sub>3</sub>; 2,5-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 3,4-hexanediol (C6) EO<sub>2-5</sub>; 3,4-hexanediol (C6) n-BO<sub>1</sub>;

5. 1,3-heptanediol (C7) E<sub>3-6</sub>; 1,3-heptanediol (C7) PO<sub>1</sub>; 1,3-heptanediol (C7) n-BO<sub>2</sub>; 1,4-heptanediol (C7) E<sub>3-6</sub>; 1,4-heptanediol (C7) PO<sub>1</sub>; 1,4-heptanediol (C7) n-BO<sub>2</sub>; 1,5-heptanediol (C7) E<sub>3-6</sub>; 1,5-heptanediol (C7) PO<sub>1</sub>; 1,5-heptanediol (C7) n-BO<sub>2</sub>; 1,6-heptanediol (C7) E<sub>3-6</sub>; 1,6-heptanediol (C7) PO<sub>1</sub>; 1,6-heptanediol (C7) n-BO<sub>2</sub>; 1,7-heptanediol (C7) E<sub>1-2</sub>; 1,7-heptanediol (C7) n-BO<sub>1</sub>; 2,4-heptanediol (C7) E<sub>7-10</sub>; 2,4-heptanediol (C7) (Me-E<sub>1</sub>); 2,4-heptanediol (C7) PO<sub>1</sub>; 2,4-heptanediol (C7) n-BO<sub>3</sub>; 2,5-heptanediol (C7) E<sub>7-10</sub>; 2,5-heptanediol (C7) (Me-E<sub>1</sub>); 2,5-heptanediol (C7) PO<sub>1</sub>; 2,5-heptanediol (C7) n-BO<sub>3</sub>; 2,6-heptanediol (C7) E<sub>7-10</sub>; 2,6-heptanediol (C7) (Me-E<sub>1</sub>); 2,6-heptanediol (C7) PO<sub>1</sub>; 2,6-heptanediol (C7) n-BO<sub>3</sub>; 3,5-heptanediol (C7) E<sub>7-10</sub>; 3,5-heptanediol (C7) (Me-E<sub>1</sub>); 3,5-heptanediol (C7) PO<sub>1</sub>; 3,5-heptanediol (C7) n-BO<sub>3</sub>;

6. 1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO<sub>1</sub>; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO<sub>1</sub>; 1,3-butanediol, 2,2-diethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) E<sub>2-5</sub>; 3,5-heptanediol, 3-methyl- (C8) E<sub>2-5</sub>; 1,3-butanediol, 2,2-diethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-

hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 5,5-dimethyl-, n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 3,5-heptanediol, 3-methyl- (C8) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,3-pantanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pantanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pantanediol, 2,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,3,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-hexanediol, 4-ethyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 3,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-hexanediol, 4-ethyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; and/or 3,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; and

## 7. mixtures thereof.

36. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; 2-phenyl-1,4-butanediol; 1-phenyl-2,3-butanediol; and mixtures thereof.

37. The composition of Claim 36 wherein said principal solvent is selected from the group consisting of:

1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; and mixtures thereof.

38. The composition of Claim 37 wherein said principal solvent is selected from the group consisting of:

1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; and/or 1-phenyl-1,4-butanediol; and mixtures thereof.

39. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: solvents are homologs, or analogs, of the parent compounds below where one, or more,  $\text{CH}_2$  groups are added while, for each  $\text{CH}_2$  group added, two hydrogen atoms are removed from adjacent carbon atoms in the molecule to form one carbon-carbon double bond, thus holding the number of hydrogen atoms in the molecule constant, the parent compounds including the following:

## I. mono-ols including:

- a. n-propanol; and/or
- b. 2-butanol or 2-methyl-2-propanol;

## II. hexane diol isomers including: 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol;

1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; and/or 1,2-hexanediol;

III. heptane diol isomers including: 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,4-dimethyl-; 1,5-pentanediol, 3,3-dimethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; and/or 1,6-heptanediol;

IV. octane diol isomers including: 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-butyl-2-methyl-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3-propyl-; 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 2,3,4-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-; 1,3-

pentanediol, 2-ethyl-4-methyl-; 1,3-pantanediol, 3-ethyl-2-methyl-; 1,4-pantanediol, 2-ethyl-2-methyl-; 1,4-pantanediol, 2-ethyl-3-methyl-; 1,4-pantanediol, 2-ethyl-4-methyl-; 1,4-pantanediol, 3-ethyl-2-methyl-; 1,4-pantanediol, 3-ethyl-3-methyl-; 1,5-pantanediol, 2-ethyl-2-methyl-; 1,5-pantanediol, 2-ethyl-3-methyl-; 1,5-pantanediol, 2-ethyl-4-methyl-; 1,5-pantanediol, 3-ethyl-3-methyl-; 2,4-pantanediol, 3-ethyl-2-methyl-; 1,3-pantanediol, 2-isopropyl-; 1,3-pantanediol, 2-propyl-; 1,4-pantanediol, 2-isopropyl-; 1,4-pantanediol, 2-propyl-; 1,4-pantanediol, 3-isopropyl-; 1,5-pantanediol, 2-isopropyl-; 2,4-pantanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 2,5-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 1,6-hexanediol, 3,5-dimethyl-; 1,6-hexanediol, 4,5-dimethyl-; 2,4-hexanediol, 2,4-dimethyl-; 2,4-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 3,5-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,4-hexanediol, 5,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 2,6-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,5-hexanediol, 3,5-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-

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heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

V. nonane diol isomers including: 2,4-pentanediol, 2,3,3,4-tetramethyl-; 2,4-pentanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; and/or 2,5-hexanediol, 3,3,5-trimethyl-;

VI. glyceryl ethers and/or di(hydroxyalkyl)ethers including: 1,2-propanediol, 3-(n-pentyloxy)-; 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyoxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyoxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; and/or 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated;

VII. saturated and unsaturated alicyclic diols and their derivatives including:

(a) the saturated diols and their derivatives, including:

1-isopropyl-1,2-cyclobutanediol; 3-ethyl-4-methyl-1,2-cyclobutanediol; 3-propyl-1,2-cyclobutanediol; 3-isopropyl-1,2-cyclobutanediol; 1-ethyl-1,2-cyclopentanediol; 1,2-dimethyl-1,2-cyclopentanediol; 1,4-dimethyl-1,2-cyclopentanediol; 2,4,5-trimethyl-1,3-cyclopentanediol; 3,3-dimethyl-1,2-cyclopentanediol; 3,4-dimethyl-1,2-cyclopentanediol; 3,5-dimethyl-1,2-cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-cyclopentanediol; 1,1-bis(hydroxymethyl)cyclohexane; 1,2-bis(hydroxymethyl)cyclohexane; 1,2-dimethyl-1,3-cyclohexanediol; 1,3-bis(hydroxymethyl)cyclohexane; 1,3-dimethyl-1,3-cyclohexanediol; 1,6-dimethyl-1,3-cyclohexanediol; 1-hydroxy-cyclohexaneethanol; 1-hydroxy-cyclohexanemethanol; 1-ethyl-1,3-cyclohexanediol; 1-methyl-1,2-cyclohexanediol; 2,2-dimethyl-1,3-cyclohexanediol; 2,3-dimethyl-1,4-cyclohexanediol; 2,4-dimethyl-1,3-cyclohexanediol; 2,5-dimethyl-1,3-

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cyclohexanediol; 2,6-dimethyl-1,4-cyclohexanediol; 2-ethyl-1,3-cyclohexanediol; 2-hydroxycyclohexaneethanol; 2-hydroxyethyl-1-cyclohexanol; 2-hydroxymethylcyclohexanol; 3-hydroxyethyl-1-cyclohexanol; 3-hydroxycyclohexaneethanol; 3-hydroxymethylcyclohexanol; 3-methyl-1,2-cyclohexanediol; 4,4-dimethyl-1,3-cyclohexanediol; 4,5-dimethyl-1,3-cyclohexanediol; 4,6-dimethyl-1,3-cyclohexanediol; 4-ethyl-1,3-cyclohexanediol; 4-hydroxyethyl-1-cyclohexanol; 4-hydroxymethylcyclohexanol; 4-methyl-1,2-cyclohexanediol; 5,5-dimethyl-1,3-cyclohexanediol; 5-ethyl-1,3-cyclohexanediol; 1,2-cycloheptanediol; 2-methyl-1,3-cycloheptanediol; 2-methyl-1,4-cycloheptanediol; 4-methyl-1,3-cycloheptanediol; 5-methyl-1,3-cycloheptanediol; 5-methyl-1,4-cycloheptanediol; 6-methyl-1,4-cycloheptanediol; 1,3-cyclooctanediol; 1,4-cyclooctanediol; 1,5-cyclooctanediol; 1,2-cyclohexanediol, diethoxylate; 1,2-cyclohexanediol, triethoxylate; 1,2-cyclohexanediol, tetraethoxylate; 1,2-cyclohexanediol, pentaethoxylate; 1,2-cyclohexanediol, hexaethoxylate; 1,2-cyclohexanediol, heptaethoxylate; 1,2-cyclohexanediol, octaethoxylate; 1,2-cyclohexanediol, nonaethoxylate; 1,2-cyclohexanediol, monopropoxylate; 1,2-cyclohexanediol, monobutylenoxylate; 1,2-cyclohexanediol, dibutylenoxylate; and/or 1,2-cyclohexanediol, tributylenoxylate; and

(b) the unsaturated alicyclic diols including: 1,2-cyclobutanediol, 1-ethenyl-2-ethyl-; 3-cyclobutene-1,2-diol, 1,2,3,4-tetramethyl-; 3-cyclobutene-1,2-diol, 3,4-diethyl-; 3-cyclobutene-1,2-diol, 3-(1,1-dimethylethyl)-; 3-cyclobutene-1,2-diol, 3-butyl-; 1,2-cyclopentanediol, 1,2-dimethyl-4-methylene-; 1,2-cyclopentanediol, 1-ethyl-3-methylene-; 1,2-cyclopentanediol, 4-(1-propenyl); 3-cyclopentene-1,2-diol, 1-ethyl-3-methyl-; 1,2-cyclohexanediol, 1-ethenyl-; 1,2-cyclohexanediol, 1-methyl-3-methylene-; 1,2-cyclohexanediol, 1-methyl-4-methylene-; 1,2-cyclohexanediol, 3-ethenyl-; 1,2-cyclohexanediol, 4-ethenyl-; 3-cyclohexene-1,2-diol, 2,6-dimethyl-; 3-cyclohexene-1,2-diol, 6,6-dimethyl-; 4-cyclohexene-1,2-diol, 3,6-dimethyl-; 4-cyclohexene-1,2-diol, 4,5-dimethyl-; 3-cyclooctene-1,2-diol; 4-cyclooctene-1,2-diol; and/or 5-cyclooctene-1,2-diol;

### VIII. Alkoxyated derivatives of C<sub>3-8</sub> diols including:

1. 1,2-propanediol (C3) 2(Me-E<sub>11-14</sub>); 1,2-propanediol (C3) PO<sub>4</sub>; 1,2-propanediol (C3) BO<sub>1</sub>; 1,2-propanediol, 2-methyl- (C4) (Me-E<sub>4-10</sub>); 1,2-propanediol, 2-methyl- (C4) 2(Me-E<sub>1</sub>); 1,2-propanediol, 2-methyl- (C4) PO<sub>3</sub>; 1,2-propanediol, 2-methyl- (C4) n-BO<sub>1-2</sub>; 1,3-propanediol (C3) 2(Me-E<sub>6-8</sub>); 1,3-propanediol (C3) PO<sub>5-6</sub>; 1,3-propanediol, 2,2-diethyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2,2-diethyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2,2-diethyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me E<sub>1-2</sub>); 1,3-propanediol, 2,2-dimethyl- (C5) PO<sub>3-4</sub>; 1,3-

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propanediol, 2-(1-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-ethyl- (C5) (Me E<sub>6-10</sub>); 1,3-propanediol, 2-ethyl- (C5) 2(Me E<sub>1</sub>); 1,3-propanediol, 2-ethyl- (C5) PO<sub>3</sub>; 1,3-propanediol, 2-ethyl- (C5) BO<sub>1</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-ethyl-2-methyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-isopropyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-isopropyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-isopropyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-methyl- (C4) 2(Me E<sub>2-5</sub>); 1,3-propanediol, 2-methyl- (C4) PO<sub>4-5</sub>; 1,3-propanediol, 2-methyl- (C4) BO<sub>2</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E<sub>2-9</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) n-BO<sub>1-3</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-propyl- (C6) (Me E<sub>11-14</sub>); 1,3-propanediol, 2-propyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-propyl- (C6) BO<sub>1</sub>;

2. 1,2-butanediol (C4) (Me E<sub>2-8</sub>); 1,2-butanediol (C4) PO<sub>2-3</sub>; 1,2-butanediol (C4) BO<sub>1</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) BO<sub>1-2</sub>; 1,2-butanediol, 2-ethyl- (C6) E<sub>1-3</sub>; 1,2-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,2-butanediol, 2-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 2-methyl- (C5) PO<sub>1</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) BO<sub>1-2</sub>; 1,2-butanediol, 3-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 3-methyl- (C5) PO; 1,3-butanediol (C4) 2(Me E<sub>1-14</sub>); 1,3-butanediol (C4) PO<sub>5</sub>; 1,3-butanediol (C4) BO<sub>2</sub>; 1,3-butanediol, 2,2,3-trimethyl- (C7) (Me E<sub>1-3</sub>); 1,3-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1-2</sub>; 1,3-butanediol, 2,2-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,2-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2,3-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,3-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2-ethyl- (C6) (Me E<sub>1-6</sub>); 1,3-butanediol, 2-ethyl- (C6) PO<sub>2-3</sub>; 1,3-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-isopropyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-isopropyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 2-methyl- (C5) PO<sub>4</sub>; 1,3-butanediol, 2-propyl- (C7) E<sub>2-9</sub>; 1,3-butanediol, 2-propyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-propyl- (C7) n-BO<sub>1-3</sub>; 1,3-butanediol, 3-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 3-methyl- (C5) PO<sub>4</sub>; 1,4-butanediol (C4) 2(Me E<sub>2-4</sub>); 1,4-butanediol (C4) PO<sub>4-5</sub>;

1,4-butanediol (C4) BO<sub>2</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO<sub>1-3</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,2-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,3-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl- (C6) (Me E<sub>11-14</sub>); 1,4-butanediol, 2-ethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-isopropyl- (C7) E<sub>1-7</sub>; 1,4-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-isopropyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 2-methyl- (C5) (Me E<sub>6-10</sub>); 1,4-butanediol, 2-methyl- (C5) 2(Me E<sub>1</sub>); 1,4-butanediol, 2-methyl- (C5) PO<sub>3</sub>; 1,4-butanediol, 2-methyl- (C5) BO<sub>1</sub>; 1,4-butanediol, 2-propyl- (C7) E<sub>1-5</sub>; 1,4-butanediol, 2-propyl- (C7) n-BO<sub>1-2</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO<sub>1-3</sub>; 2,3-butanediol (C4) (Me E<sub>1-6</sub>); 2,3-butanediol (C4) 2(Me E<sub>1</sub>); 2,3-butanediol (C4) PO<sub>3-4</sub>; 2,3-butanediol (C4) BO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) E<sub>3-9</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) PO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) BO<sub>1-3</sub>; 2,3-butanediol, 2-methyl- (C5) (Me E<sub>1-5</sub>); 2,3-butanediol, 2-methyl- (C5) 2PO<sub>2</sub>; 2,3-butanediol, 2-methyl- (C5) n-BO<sub>1</sub>; 2,3-butanediol, 2-methyl- (C5) BO<sub>1</sub>;

3. 1,2-pentanediol (C5) E<sub>3-10</sub>; 1,2-pentanediol, (C5) PO<sub>1</sub>; 1,2-pentanediol, (C5) n-BO<sub>2-3</sub>; 1,2-pentanediol, 2-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 2-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 2-methyl (C6) BO<sub>1</sub>; 1,2-pentanediol, 3-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 3-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 3-methyl (C6) BO<sub>1</sub>; 1,2-pentanediol, 4-methyl (C6) E<sub>1-3</sub>; 1,2-pentanediol, 4-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 4-methyl (C6) BO<sub>1</sub>; 1,3-pentanediol (C5) 2(Me-E<sub>1-2</sub>); 1,3-pentanediol (C5) PO<sub>3-4</sub>; 1,3-pentanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,3-pentanediol, 2-ethyl- (C7) E<sub>2-9</sub>; 1,3-pentanediol, 2-ethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2-ethyl- (C7) n-BO<sub>1-3</sub>; 1,3-pentanediol, 2-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,3-pentanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,3-pentanediol, 2-methyl- (C6) n-BO<sub>1</sub>; 1,3-pentanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,3-pentanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol,

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3,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pantanediol, 3-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,3-pantanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,3-pantanediol, 3-methyl- (C6) n-BO<sub>1</sub>; 1,3-pantanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,3-pantanediol, 4,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pantanediol, 4,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pantanediol, 4,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pantanediol, 4-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,3-pantanediol, 4-methyl- (C6) PO<sub>2</sub>-3; 1,3-pantanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, (C5) 2(Me-E<sub>1-2</sub>); 1,4-pantanediol (C5) PO<sub>3-4</sub>; 1,4-pantanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,2-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 2-methyl- (C6) (Me-E<sub>1-6</sub>); 1,4-pantanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 2-methyl- (C6) n-BO<sub>1</sub>; 1,4-pantanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pantanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pantanediol, 3,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,4-pantanediol, 3-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,4-pantanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,4-pantanediol, 4-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,4-pantanediol, 4-methyl- (C6) PO<sub>2-3</sub>; 1,4-pantanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,5-pantanediol, 1,5-pantanediol, (C5) (Me-E<sub>4-10</sub>); 1,5-pantanediol (C5) 2(Me-E<sub>1</sub>); 1,5-pantanediol (C5) PO<sub>3</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,2-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,3-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 2,4-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2-ethyl- (C7) E<sub>1-5</sub>; 1,5-pantanediol, 2-ethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 2-methyl- (C6) (Me-E<sub>11-14</sub>); 1,5-pantanediol, 2-methyl- (C6) PO<sub>2</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pantanediol, 3,3-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pantanediol, 3-methyl- (C6) (Me-E<sub>11-14</sub>); 1,5-pantanediol, 3-methyl- (C6) PO<sub>2</sub>; 2,3-pantanediol, (C5) (Me-E<sub>1-3</sub>); 2,3-pantanediol, (C5) PO<sub>2</sub>; 2,3-pantanediol, 2-methyl- (C6) E<sub>1-7</sub>; 2,3-pantanediol, 2-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 2-methyl- (C6) n-BO<sub>1-2</sub>; 2,3-pantanediol, 3-methyl- (C6) E<sub>1-7</sub>; 2,3-pantanediol, 3-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 3-methyl- (C6) n-BO<sub>1-2</sub>; 2,3-pantanediol, 4-methyl- (C6) E<sub>1-7</sub>; 2,3-pantanediol, 4-methyl- (C6) PO<sub>1</sub>; 2,3-pantanediol, 4-methyl- (C6) n-BO<sub>1-2</sub>; 2,4-pantanediol, (C5) 2(Me-E<sub>11-14</sub>); 2,4-pantanediol (C5) PO<sub>4</sub>; 2,4-pantanediol, 2,3-dimethyl- (C7) (Me-E<sub>11-14</sub>); 2,4-

pentanediol, 2,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>11-14</sub>); 2,4-pentanediol, 2,4-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 2-methyl- (C7) (Me-E<sub>5-10</sub>); 2,4-pentanediol, 2-methyl- (C7) PO<sub>3</sub>; 2,4-pentanediol, 3,3-dimethyl- (C7) (Me-E<sub>11-14</sub>); 2,4-pentanediol, 3,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 3-methyl- (C6) (Me-E<sub>5-10</sub>); 2,4-pentanediol, 3-methyl- (C6) PO<sub>3</sub>.

4. 1,3-hexanediol (C6) (Me-E<sub>1-5</sub>) 1,3-hexanediol (C6) PO<sub>2</sub>; 1,3-hexanediol (C6) BO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 2-methyl- (C7) BO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,4-hexanediol (C6) PO<sub>2</sub>; 1,4-hexanediol (C6) BO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,5-hexanediol (C6) PO<sub>2</sub>; 1,5-hexanediol (C6) BO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,6-hexanediol (C6) (Me-E<sub>1-2</sub>); 1,6-hexanediol (C6) PO<sub>1-2</sub>; 1,6-hexanediol (C6) n-BO<sub>4</sub>; 1,6-hexanediol, 2-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 2-methyl- (C7) n-BO<sub>1-2</sub>; 1,6-hexanediol, 3-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 3-methyl- (C7) n-BO<sub>1-2</sub>; 2,3-hexanediol (C6) E<sub>1-5</sub>; 2,3-hexanediol (C6) n-BO<sub>1</sub>; 2,3-hexanediol (C6) BO<sub>1</sub>; 2,4-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,4-hexanediol (C6) PO<sub>3</sub>; 2,4-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 4-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 4-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 5-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 5-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,5-hexanediol (C6) PO<sub>3</sub>; 2,5-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol, 3-

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methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 3,4-hexanediol (C6) EO<sub>1-5</sub>; 3,4-hexanediol (C6) n-BO<sub>1</sub>; 3,4-hexanediol (C6) BO<sub>1</sub>

5. 1,3-heptanediol (C7) E<sub>1-7</sub>; 1,3-heptanediol (C7) PO<sub>1</sub>; 1,3-heptanediol (C7) n-BO<sub>1-2</sub>; 1,4-heptanediol (C7) E<sub>1-7</sub>; 1,4-heptanediol (C7) PO<sub>1</sub>; 1,4-heptanediol (C7) n-BO<sub>1-2</sub>; 1,5-heptanediol (C7) E<sub>1-7</sub>; 1,5-heptanediol (C7) PO<sub>1</sub>; 1,5-heptanediol (C7) n-BO<sub>1-2</sub>; 1,6-heptanediol (C7) E<sub>1-7</sub>; 1,6-heptanediol (C7) PO<sub>1</sub>; 1,6-heptanediol (C7) n-BO<sub>1-2</sub>; 1,7-heptanediol (C7) E<sub>1-2</sub>; 1,7-heptanediol (C7) n-BO<sub>1</sub>; 2,4-heptanediol (C7) E<sub>3-10</sub>; 2,4-heptanediol (C7) (Me-E<sub>1</sub>); 2,4-heptanediol (C7) PO<sub>1</sub>; 2,4-heptanediol (C7) n-BO<sub>3</sub>; 2,5-heptanediol (C7) E<sub>3-10</sub>; 2,5-heptanediol (C7) (Me-E<sub>1</sub>); 2,5-heptanediol (C7) PO<sub>1</sub>; 2,5-heptanediol (C7) n-BO<sub>3</sub>; 2,6-heptanediol (C7) E<sub>3-10</sub>; 2,6-heptanediol (C7) (Me-E<sub>1</sub>); 2,6-heptanediol (C7) PO<sub>1</sub>; 2,6-heptanediol (C7) n-BO<sub>3</sub>; 3,5-heptanediol (C7) E<sub>3-10</sub>; 3,5-heptanediol (C7) (Me-E<sub>1</sub>); 3,5-heptanediol (C7) PO<sub>1</sub>; 3,5-heptanediol (C7) n-BO<sub>3</sub>;

6. 1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO<sub>1</sub>; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO<sub>1</sub>; 1,3-butanediol, 2,2-diethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,8-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) E<sub>2-5</sub>; 3,5-heptanediol, 3-methyl- (C8) E<sub>2-5</sub>; 1,3-butanediol, 2,2-diethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 3,5-heptanediol, 3-methyl- (C8) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 3,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 2,3,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 2,3,4-trimethyl-

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(C8) n-BO<sub>1</sub>; 1,4-pentanediol, 3,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-pentanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-hexanediol, 4-ethyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 3,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-hexanediol, 4-ethyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; and/or 3,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; and

7. mixtures thereof.

IX. aromatic diols including: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; 2-phenyl-1,4-butanediol; and/or 1-phenyl-2,3-butanediol; and

X. mixtures thereof.

40. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of:

1,3-Propanediol, 2,2-di-2-propenyl-; 1,3-Propanediol, 2-(1-pentenyl)-; 1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-; 1,3-Propanediol, 2-(3-methyl-

1-butenyl)-; 1,3-Propanediol, 2-(4-pentenyl)-; 1,3-Propanediol, 2-ethyl-2-(2-methyl-2-propenyl)-; 1,3-Propanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Propanediol, 2-methyl-2-(3-methyl-3-butenyl)-; 1,3-Butanediol, 2,2-diallyl-; 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 1,3-Butanediol, 2-(2-butenyl)-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-butenyl)-; 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 1,4-Butanediol, 2,3-bis(1-methylethylidene)-; 1,4-Butanediol, 2-(3-methyl-2-butenyl)-3-methylene-; 2-Butene-1,4-diol, 2-(1,1-dimethylpropyl)-; 2-Butene-1,4-diol, 2-(1-methylpropyl)-; 2-Butene-1,4-diol, 2-butyl-; 1,3-Pantanediol, 2-ethenyl-3-ethyl-; 1,3-Pantanediol, 2-ethenyl-4,4-dimethyl-; 1,4-Pantanediol, 3-methyl-2-(2-propenyl)-; 1,5-Pantanediol, 2-(1-propenyl)-; 1,5-Pantanediol, 2-(2-propenyl)-; 1,5-Pantanediol, 2-ethylidene-3-methyl-; 1,5-Pantanediol, 2-propylidene-; 2,4-Pantanediol, 3-ethylidene-2,4-dimethyl-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 4-Pentene-1,3-diol, 2-ethyl-2,3-dimethyl-; 1,4-Hexanediol, 4-ethyl-2-methylene-; 1,5-Hexadiene-3,4-diol, 2,3,5-trimethyl-; 1,5-Hexadiene-3,4-diol, 5-ethyl-3-methyl-; 1,5-Hexanediol, 2-(1-methylethyl)-; 1,6-Hexanediol, 2-ethenyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 2-Hexene-1,5-diol, 4-ethenyl-2,5-dimethyl-; 3-Hexene-1,6-diol, 2-ethenyl-2,5-dimethyl-; 3-Hexene-1,6-diol, 2-ethyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-1,3-diol, 3-(2-propenyl)-; 5-Hexene-2,3-diol, 2,3-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,5-dimethyl-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 1,4-Heptanediol, 6-methyl-5-methylene-; 1,5-Heptadiene-3,4-diol, 2,3-dimethyl-; 1,5-Heptadiene-3,4-diol, 2,5-dimethyl-; 1,5-Heptadiene-3,4-diol, 3,5-dimethyl-; 1,7-Heptanediol, 2,6-bis(methylene)-; 1,7-Heptanediol, 4-methylene-; 1-Heptene-3,5-diol, 2,4-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 3-ethenyl-5-methyl-; 1-Heptene-3,5-diol, 6,6-dimethyl-; 2,4-Heptadiene-2,6-diol, 4,6-dimethyl-; 2,5-Heptadiene-1,7-diol, 4,4-dimethyl-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 2-Heptene-1,7-diol, 2-methyl-; 3-Heptene-1,5-diol, 4,6-dimethyl-; 3-Heptene-1,7-diol, 3-methyl-6-methylene-; 3-Heptene-2,5-diol, 2,4-dimethyl-; 3-Heptene-2,5-diol, 2,5-dimethyl-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 3-Heptene-2,6-diol, 4,6-dimethyl-; 5-Heptene-1,3-diol, 2,4-dimethyl-; 5-Heptene-1,3-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2,6-dimethyl-; 5-Heptene-1,4-diol, 3,6-dimethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 6-Heptene-1,3-diol, 2,2-dimethyl-; 6-Heptene-1,4-diol, 4-(2-propenyl)-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,5-diol, 2,4-dimethyl-; 6-Heptene-1,5-diol, 2-ethylidene-6-methyl-; 6-Heptene-2,4-diol, 4-(2-propenyl)-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 6-Heptene-2,5-diol, 5-ethenyl-4-

methyl-; 1,3-Octanediol, 2-methylene-; 1,6-Octadiene-3,5-diol, 2,6-dimethyl-; 1,6-Octadiene-3,5-diol, 3,7-dimethyl-; 1,7-Octadiene-3,6-diol, 2,6-dimethyl-; 1,7-Octadiene-3,6-diol, 2,7-dimethyl-; 1,7-Octadiene-3,6-diol, 3,6-dimethyl-; 1-Octene-3,6-diol, 3-ethenyl-; 2,4,6-Octatriene-1,8-diol, 2,7-dimethyl-; 2,4-Octadiene-1,7-diol, 3,7-dimethyl-; 2,5-Octadiene-1,7-diol, 2,6-dimethyl-; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridol); 2,6-Octadiene-1,8-diol, 2-methyl-; 2,7-Octadiene-1,4-diol, 3,7-dimethyl-; 2,7-Octadiene-1,5-diol, 2,6-dimethyl-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinalool); 2,7-Octadiene-1,6-diol, 2,7-dimethyl-; 2-Octene-1,4-diol; 2-Octene-1,7-diol; 2-Octene-1,7-diol, 2-methyl-6-methylene-; 3,5-Octadiene-1,7-diol, 3,7-dimethyl-; 3,5-Octadiene-2,7-diol, 2,7-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,7-Octadiene-1,6-diol, 2,6-dimethyl-; 3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 3-Octene-1,5-diol, 4-methyl-; 3-Octene-1,5-diol, 5-methyl-; 4,6-Octadiene-1,3-diol, 2,2-dimethyl-; 4,7-Octadiene-2,3-diol, 2,6-dimethyl-; 4,7-Octadiene-2,6-diol, 2,6-dimethyl-; 4-Octene-1,6-diol, 7-methyl-; 2,7-bis(methylene)-; 2-methylene-; 5,7-Octadiene-1,4-diol, 2,7-dimethyl-; 5,7-Octadiene-1,4-diol, 7-methyl-; 5-Octene-1,3-diol; 6-Octene-1,3-diol, 7-methyl-; 6-Octene-1,4-diol, 7-methyl-; 6-Octene-1,5-diol; 6-Octene-1,5-diol, 7-methyl-; 6-Octene-3,5-diol, 2-methyl-; 6-Octene-3,5-diol, 4-methyl-; 7-Octene-1,3-diol, 2-methyl-; 7-Octene-1,3-diol, 4-methyl-; 7-Octene-1,3-diol, 7-methyl-; 7-Octene-1,5-diol; 7-Octene-1,6-diol; 7-Octene-1,6-diol, 5-methyl-; 7-Octene-2,4-diol, 2-methyl-6-methylene-; 7-Octene-2,8-diol, 7-methyl-; 7-Octene-3,5-diol, 2-methyl-; 1-Nonene-3,5-diol; 1-Nonene-3,7-diol; 3-Nonene-2,5-diol; 4,6-Nonadiene-1,3-diol, 8-methyl-; 4-Nonene-2,8-diol; 6,8-Nonadiene-1,5-diol; 7-Nonene-2,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,5-diol; 1,9-Decadiene-3,8-diol; 1,9-Decadiene-4,6-diol; and mixtures thereof.

41. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of:

1,3-Butanediol, 2,2-diallyl-; 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 1,3-Butanediol, 2-(2-butenyl)-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-butenyl)-; 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 1,4-Butanediol, 2,3-bis(1-methylethylidene)-; 1,3-Pantanediol, 2-ethenyl-3-ethyl-; 1,3-Pantanediol, 2-ethenyl-4,4-dimethyl-; 1,4-Pantanediol, 3-methyl-2-(2-propenyl)-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 4-Pentene-1,3-diol, 2-ethyl-2,3-dimethyl-; 1,4-Hexanediol, 4-ethyl-2-methylene-; 1,5-Hexadiene-3,4-diol, 2,3,5-trimethyl-; 1,5-Hexanediol, 2-(1-methylethethyl)-; 2-Hexene-1,5-diol, 4-ethenyl-2,5-dimethyl-; 1,4-Heptanediol, 6-methyl-5-methylene-; 2,4-Heptadiene-2,6-diol, 4,6-dimethyl-; 2,6-

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Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 3-Heptene-1,5-diol, 4,6-dimethyl-; 5-Heptene-1,3-diol, 2,4-dimethyl-; 5-Heptene-1,3-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2,6-dimethyl-; 5-Heptene-1,4-diol, 3,6-dimethyl-; 6-Heptene-1,3-diol, 2,2-dimethyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,5-diol, 2,4-dimethyl-; 6-Heptene-1,5-diol, 2-ethylidene-6-methyl-; 6-Heptene-2,4-diol, 4-(2-propenyl)-; 1-Octene-3,6-diol, 3-ethenyl-; 2,4,6-Octatriene-1,8-diol, 2,7-dimethyl-; 2,5-Octadiene-1,7-diol, 2,6-dimethyl-; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridol); 2,6-Octadiene-1,8-diol, 2-methyl-; 2,7-Octadiene-1,4-diol, 3,7-dimethyl-; 2,7-Octadiene-1,5-diol, 2,6-dimethyl-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinalool); 2,7-Octadiene-1,6-diol, 2,7-dimethyl-; 2-Octene-1,7-diol, 2-methyl-6-methylene-; 3,5-Octadiene-2,7-diol, 2,7-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,7-Octadiene-1,6-diol, 2,6-dimethyl-; 4-Octene-1,8-diol, 2-methylene-; 6-Octene-3,5-diol, 2-methyl-; 6-Octene-3,5-diol, 4-methyl-; 7-Octene-2,4-diol, 2-methyl-6-methylene-; 7-Octene-2,5-diol, 7-methyl-; 7-Octene-3,5-diol, 2-methyl-; 1-Nonene-3,5-diol; 1-Nonene-3,7-diol; 3-Nonene-2,5-diol; 4-Nonene-2,8-diol; 6,8-Nonadiene-1,5-diol; 7-Nonene-2,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,5-diol; 1,9-Decadiene-3,8-diol; 1,9-Decadiene-4,6-diol; and mixtures thereof.

42. The composition of any of Claims 11-15 wherein the softener active comprises up to about 20% of monoester compound in which m is 2 and one YR<sup>1</sup> is -OH, -N(R)H, or -C(O)OH.

43. The composition of any of Claims 11-15 wherein at low water levels of from about 5% to about 15%, the softener active-to-principal solvent weight ratio is from about 55:45 to about 85:15; at water levels of from about 15% to about 70%, the softener active-to-principal solvent weight ratio is from about 45:55 to about 70:30, and at high water levels of from about 70% to about 80%, the softener active-to-principal solvent weight ratio is from about 30:70 to about 55:45.

44. The composition of Claim 43 wherein at low water levels of from about 5% to about 15%, the softener active-to-principal solvent weight ratio is from about 60:40 to about 80:20; at water levels of from about 15% to about 70%, the softener active-to-principal solvent weight ratio is from about 55:45 to about 70:30; and at high water levels of from about 70% to about 80%, the softener active-to-principal solvent weight ratio is from about 35:65 to about 45:55.

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45. The composition of Claim 11 which is translucent or clear at 25°C, containing solvents other than principal solvent B., the amount of principal solvent B. being at least about 5% by weight of the composition, where the composition is not translucent or clear at 25°C in the absence of principal solvent B.

46. The composition of any of Claims 11-15 which contains one, or more, of the following optional ingredients:

- (a) brightener at a level of from about 0.005% to about 5%;
- (b) dispersibility aid at a level of from about 2% to about 25%;
- (c) soil release agent at a level of from 0% to about 10%;
- (d) scum dispersant at a level of from about 2% to about 10%;
- (e) stabilizer selected from the group consisting of antioxidant, reducing agent, chelator, and mixtures thereof, at a level of from 0% to about 2%;
- (f) bactericide at a level of from about 0.005% to about 5%; and
- (g) chelating agent in addition to any chelator in (e), at a level of from about 0.5% to about 10%.

47. A premix of the components of any of Claims 11-15 consisting essentially of: said biodegradable fabric softener active A.; said principal solvent B.; and optionally, said water soluble solvent C.

48. An article of manufacture comprising the composition of Claim 11 in a clear bottle.

49. The article of Claim 48 wherein the bottle has a slight blue tint, sufficient to compensate for any light yellow color of the composition.

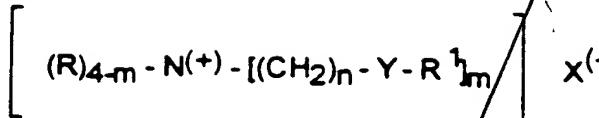
50. The article of Claim 49 wherein the bottle has an ultraviolet light absorber incorporated in the bottle wall to protect the composition.

51. Composition comprising:

A. from about 2% to about 80% of biodegradable fabric softener active selected from the group consisting of:

- 1. softener having the formula:

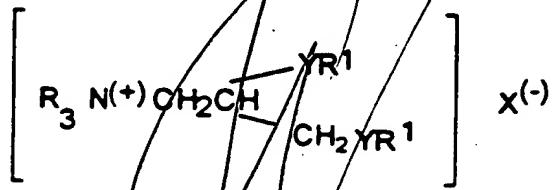
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(1)

wherein each R substituent is H, or a short chain C<sub>1</sub>-C<sub>6</sub> alkyl or hydroxyalkyl group, benzyl, or mixtures thereof; each m is 2 or 3; each n is from 1 to about 4; each Y is -O-(O)C-, -(R)N-(O)C-, -C(O)-N(R)-, or -C(O)-O-, the sum of carbons in each R<sup>1</sup> or YR<sup>1</sup> plus one when Y is -O-(O)C- or -(R)N-(O)C-, being C<sub>6</sub>-C<sub>22</sub>, but when one R<sup>1</sup> or YR<sup>1</sup> sum is less than about 12, then the other R<sup>1</sup> or YR<sup>1</sup> sum is at least about 16, with each R<sup>1</sup> being a long chain hydrocarbyl, or substituted hydrocarbyl substituent; and for R<sup>1</sup> or YR<sup>1</sup> comprising a C<sub>15</sub>-C<sub>21</sub> straight chain alkyl or alkylene group, the Iodine Value of a fatty acid which contains this R<sup>1</sup> group being from about 20 to about 140, and wherein the counterion, X<sup>-</sup>, can be any softener-compatible anion;

2. softener having the formula:



(2)

wherein each Y, R, R<sup>1</sup>, and X<sup>-</sup> have the same meanings as before; and

3. mixtures thereof;

B. less than about 40% by weight of the composition of principal alcohol solvent selected from the group consisting of:

I. mono-ols including:

- a. n-propanol; and/or
- b. 2-butanol and/or 2-methyl-2-propanol;

II. hexane diol isomers including: 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; and/or 1,2-hexanediol;

III. heptane diol isomers including: 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-

pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,4-dimethyl-; 1,5-pentanediol, 3,3-dimethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; and/or 1,6-heptanediol; IV. octane diol isomers including: 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-butyl-2-methyl-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3-propyl-; 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 2,3,4-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-; 1,3-pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 1,5-

pentanediol, 2-isopropyl-; 2,4-pantanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,4-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 2,5-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 2,4-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 3,5-dimethyl-; 2,4-hexanediol, 2,4-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,4-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,5-hexanediol, 3,5-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

V. nonane diol isomers including: 2,4-pantanediol, 2,3,3,4-tetramethyl-; 2,4-pantanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-

trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; and/or 2,5-hexanediol, 3,3,5-trimethyl-;

VI. glyceryl ethers and/or di(hydroxyalkyl)ethers including: 1,2-propanediol, 3-(n-pentyloxy)-; 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyoxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyoxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol, 3-(butyloxy)-, dibutyleneoxylated; 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated; 1,2-propanediol, 3-phenyloxy-; 1,2-propanediol, 3-benzyloxy-; 1,2-propanediol, 3-(2-phenylethoxy)-; 1,2-propanediol, 3-(1-phenyl-2-propoxyloxy)-; 1,3-propanediol, 2-phenyloxy-; 1,3-propanediol, 2-(m-cresyloxy)-; 1,3-propanediol, 2-(p-cresyloxy)-; 1,3-propanediol, -benzyloxy-; 1,3-propanediol, 2-(2-phenylethoxy)-; 1,3-propanediol, 2-(1-phenylethoxy)-; bis(2-hydroxybutyl)ether; and/or bis(2-hydroxycyclopentyl)ether

VII. saturated and unsaturated alicyclic diols and their derivatives including:

(a) the saturated diols and their derivatives, including:

1-isopropyl-1,2-cyclobutanediol; 3-ethyl-4-methyl-1,2-cyclobutanediol; 3-propyl-1,2-cyclobutanediol; 3-isopropyl-1,2-cyclobutanediol; 1-ethyl-1,2-cyclopentanediol; 1,2-dimethyl-1,2-cyclopentanediol; 1,4-dimethyl-1,2-cyclopentanediol; 2,4,5-trimethyl-1,3-cyclopentanediol; 3,3-dimethyl-1,2-cyclopentanediol; 3,4-dimethyl-1,2-cyclopentanediol; 3,5-dimethyl-1,2-cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-cyclopentanediol; 1,1-bis(hydroxymethyl)cyclohexane; 1,2-bis(hydroxymethyl)cyclohexane; 1,2-dimethyl-1,3-cyclohexanediol; 1,3-bis(hydroxymethyl)cyclohexane; 1,3-dimethyl-1,3-cyclohexanediol; 1,6-dimethyl-1,3-cyclohexanediol; 1-hydroxy-cyclohexaneethanol; 1-hydroxy-cyclohexanemethanol; 1-ethyl-1,3-cyclohexanediol; 1-methyl-1,2-cyclohexanediol; 2,2-dimethyl-1,3-cyclohexanediol; 2,3-dimethyl-1,4-cyclohexanediol; 2,4-dimethyl-1,3-cyclohexanediol; 2,5-dimethyl-1,3-

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cyclohexanediol; 2,6-dimethyl-1,4-cyclohexanediol; 2-ethyl-1,3-cyclohexanediol; 2-hydroxycyclohexaneethanol; 2-hydroxyethyl-1-cyclohexanol; 3-hydroxyethyl-1-cyclohexanol; 3-hydroxycyclohexaneethanol; 3-hydroxymethylcyclohexanol; 3-methyl-1,2-cyclohexanediol; 4,4-dimethyl-1,3-cyclohexanediol; 4,5-dimethyl-1,3-cyclohexanediol; 4,6-dimethyl-1,3-cyclohexanediol; 4-ethyl-1,3-cyclohexanediol; 4-hydroxyethyl-1-cyclohexanol; 4-methyl-1,2-cyclohexanediol; 5,5-dimethyl-1,3-cyclohexanediol; 5-ethyl-1,3-cyclohexanediol; 1,2-cycloheptanediol; 2-methyl-1,3-cycloheptanediol; 2-methyl-1,4-cycloheptanediol; 4-methyl-1,3-cycloheptanediol; 5-methyl-1,3-cycloheptanediol; 5-methyl-1,4-cycloheptanediol; 6-methyl-1,4-cycloheptanediol; 1,3-cyclooctanediol; 1,4-cyclooctanediol; 1,5-cyclooctanediol; 1,2-cyclohexanediol, diethoxylate; 1,2-cyclohexanediol, triethoxylate; 1,2-cyclohexanediol, tetraethoxylate; 1,2-cyclohexanediol, pentaethoxylate; 1,2-cyclohexanediol, hexaethoxylate; 1,2-cyclohexanediol, heptaethoxylate; 1,2-cyclohexanediol, octaethoxylate; 1,2-cyclohexanediol, nonaethoxylate; 1,2-cyclohexanediol, monopropoxylate; 1,2-cyclohexanediol, monobutyleneoxylate; 1,2-cyclohexanediol, dibutyleneoxylate; and/or 1,2-cyclohexanediol, tributyleneoxylate; and (b) the unsaturated alicyclic diols including: 1,2-cyclobutanediol, 1-ethenyl-2-ethyl-; 3-cyclobutene-1,2-diol, 1,2,3,4-tetramethyl-; 3-cyclobutene-1,2-diol, 3,4-diethyl-; 3-cyclobutene-1,2-diol, 3-(1,1-dimethylethyl)-; 3-cyclobutene-1,2-diol, 3-butyl-; 1,2-cyclopentanediol, 1,2-dimethyl-4-methylene-; 1,2-cyclopentanediol, 1-ethyl-3-methylene-; 1,2-cyclopentanediol, 4-(1-propenyl)-; 3-cyclopentene-1,2-diol, 1-ethyl-3-methyl-; 1,2-cyclohexanediol, 1-ethenyl-; 1,2-cyclohexanediol, 1-methyl-3-methylene-; 1,2-cyclohexanediol, 1-methyl-4-methylene-; 1,2-cyclohexanediol, 3-ethenyl-; 1,2-cyclohexanediol, 4-ethenyl-; 3-cyclohexene-1,2-diol, 2,6-dimethyl-; 3-cyclohexene-1,2-diol, 6,6-dimethyl-; 4-cyclohexene-1,2-diol, 3,6-dimethyl-; 4-cyclohexene-1,2-diol, 4,5-dimethyl-; 3-cyclooctene-1,2-diol; 4-cyclooctene-1,2-diol; and/or 5-cyclooctene-1,2-diol;

VIII. Alkoxylated derivatives of C<sub>3-8</sub> diols including:

1. 1,2-propanediol (C3) 2(Me-E<sub>1-4</sub>); 1,2-propanediol (C3) PO<sub>4</sub>; 1,2-propanediol, 2-methyl- (C4) (Me-E<sub>4-10</sub>); 1,2-propanediol, 2-methyl- (C4) 2(Me-E<sub>1</sub>); 1,2-propanediol, 2-methyl- (C4) PO<sub>3</sub>; 1,2-propanediol, 2-methyl- (C4) BO<sub>1</sub>; 1,3-propanediol (C3) 2(Me-E<sub>6-8</sub>); 1,3-propanediol (C3) PO<sub>5-6</sub>; 1,3-propanediol, 2,2-diethyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2,2-diethyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2,2-diethyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me E<sub>1-2</sub>); 1,3-propanediol, 2,2-dimethyl- (C5) PO<sub>3-4</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(1-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) E<sub>1-7</sub>; 1,3-

propanediol, 2-(2-methylpropyl)- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-(2-methylpropyl)- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-ethyl- (C5) (Me E<sub>6-10</sub>); 1,3-propanediol, 2-ethyl- (C5) 2(Me E<sub>1</sub>); 1,3-propanediol, 2-ethyl- (C5) PO<sub>3</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-ethyl-2-methyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-ethyl-2-methyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-isopropyl- (C6) (Me E<sub>1-6</sub>); 1,3-propanediol, 2-isopropyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-isopropyl- (C6) BO<sub>1</sub>; 1,3-propanediol, 2-methyl- (C4) 2(Me E<sub>2-5</sub>); 1,3-propanediol, 2-methyl- (C4) PO<sub>4-5</sub>; 1,3-propanediol, 2-methyl- (C4) BO<sub>2</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E<sub>2-9</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) n-BO<sub>1-3</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) E<sub>1-7</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) PO<sub>1</sub>; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-propyl- (C6) (Me E<sub>1-4</sub>); 1,3-propanediol, 2-propyl- (C6) PO<sub>2</sub>; 1,3-propanediol, 2-propyl- (C6) BO<sub>1</sub>;

2. 1,2-butanediol (C4) (Me E<sub>2-8</sub>); 1,2-butanediol (C4) PO<sub>2-3</sub>; 1,2-butanediol (C4) BO<sub>1</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1-2</sub>; 1,2-butanediol, 2-ethyl- (C6) E<sub>1-3</sub>; 1,2-butanediol, 2-ethyl- (C6) n-BO<sub>1</sub>; 1,2-butanediol, 2-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 2-methyl- (C5) PO<sub>1</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) E<sub>1-6</sub>; 1,2-butanediol, 3,3-dimethyl- (C6) n-BO<sub>1-2</sub>; 1,2-butanediol, 3-methyl- (C5) (Me E<sub>1-2</sub>); 1,2-butanediol, 3-methyl- (C5) PO<sub>1</sub>; 1,3-butanediol (C4) 2(Me E<sub>3-6</sub>); 1,3-butanediol (C4) PO<sub>5</sub>; 1,3-butanediol (C4) BO<sub>2</sub>; 1,3-butanediol, 2,2,3-trimethyl- (C7) (Me E<sub>1-3</sub>); 1,3-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1-2</sub>; 1,3-butanediol, 2,2-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,2-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2,3-dimethyl- (C6) (Me E<sub>3-8</sub>); 1,3-butanediol, 2,3-dimethyl- (C6) PO<sub>3</sub>; 1,3-butanediol, 2-ethyl- (C6) (Me E<sub>1-6</sub>); 1,3-butanediol, 2-ethyl- (C6) PO<sub>2-3</sub>; 1,3-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E<sub>1</sub>); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-ethyl-3-methyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-isopropyl- (C7) n-BO<sub>2-4</sub>; 1,3-butanediol, 2-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 2-methyl- (C5) PO<sub>4</sub>; 1,3-butanediol, 2-propyl- (C7) E<sub>2-9</sub>; 1,3-butanediol, 2-propyl- (C7) PO<sub>1</sub>; 1,3-butanediol, 2-propyl- (C7) n-BO<sub>1-3</sub>; 1,3-butanediol, 3-methyl- (C5) 2(Me E<sub>1-3</sub>); 1,3-butanediol, 3-methyl- (C5) PO<sub>4</sub>; 1,4-butanediol (C4) 2(Me E<sub>2-4</sub>); 1,4-butanediol (C4) PO<sub>4-5</sub>; 1,4-butanediol (C4) BO<sub>2</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) E<sub>2-9</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO<sub>1-3</sub>; 1,4-butanediol, 2,2-dimethyl- (C6) (Me E<sub>1-6</sub>); 1,4-butanediol, 2,2-dimethyl- (C6) PO<sub>2</sub>;

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1,4-butanediol, 2,2-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E<sub>1</sub>-6); 1,4-butanediol, 2,3-dimethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2,3-dimethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl- (C6) (Me E<sub>1</sub>-4); 1,4-butanediol, 2-ethyl- (C6) PO<sub>2</sub>; 1,4-butanediol, 2-ethyl- (C6) BO<sub>1</sub>; 1,4-butanediol, 2-ethyl-2-methyl- (C7) E<sub>1</sub>-7; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n-BO<sub>1</sub>-2; 1,4-butanediol, 2-ethyl-3-methyl- (C7) E<sub>1</sub>-7; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-ethyl-3-methyl- (C7) n-BO<sub>1</sub>-2; 1,4-butanediol, 2-isopropyl- (C7) E<sub>1</sub>-7; 1,4-butanediol, 2-isopropyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 2-isopropyl- (C7) n-BO<sub>1</sub>-2; 1,4-butanediol, 2-methyl- (C5) (Me E<sub>6</sub>-10); 1,4-butanediol, 2-methyl- (C5) 2(Me E<sub>1</sub>); 1,4-butanediol, 2-methyl- (C5) PO<sub>3</sub>; 1,4-butanediol, 2-methyl- (C5) BO<sub>1</sub>; 1,4-butanediol, 2-propyl- (C7) E<sub>1</sub>-5; 1,4-butanediol, 2-propyl- (C7) n-BO<sub>1</sub>-2; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E<sub>2</sub>-9; 1,4-butanediol, 3-ethyl-1-methyl- (C7) PO<sub>1</sub>; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO<sub>1</sub>-3; 2,3-butanediol (C4) (Me E<sub>6</sub>-10); 2,3-butanediol (C4) 2(Me E<sub>1</sub>); 2,3-butanediol (C4) PO<sub>3</sub>-4; 2,3-butanediol (C4) BO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) E<sub>3</sub>-9; 2,3-butanediol, 2,3-dimethyl- (C6) PO<sub>1</sub>; 2,3-butanediol, 2,3-dimethyl- (C6) n-BO<sub>1</sub>-3; 2,3-butanediol, 2-methyl- (C5) (Me E<sub>1</sub>-5); 2,3-butanediol, 2-methyl- (C5) PO<sub>2</sub>; 2,3-butanediol, 2-methyl- (C5) BO<sub>1</sub>;

3. 1,2-pentanediol (C5) E<sub>3</sub>-10; 1,2-pentanediol, (C5) PO<sub>1</sub>; 1,2-pentanediol, (C5) n-BO<sub>2</sub>-3; 1,2-pentanediol, 2-methyl (C6) E<sub>1</sub>-3; 1,2-pentanediol, 2-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 2-methyl (C6) BO<sub>1</sub>; 1,2-pentanediol, 3-methyl (C6) E<sub>1</sub>-3; 1,2-pentanediol, 3-methyl (C6) n-BO<sub>1</sub>; 1,2-pentanediol, 4-methyl (C6) E<sub>1</sub>-3; 1,2-pentanediol, 4-methyl (C6) n-BO<sub>1</sub>; 1,3-pentanediol (C5) 2(Me-E<sub>1</sub>-2); 1,3-pentanediol (C5) PO<sub>3</sub>-4; 1,3-pentanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,3-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pentanediol, 2-ethyl- (C7) E<sub>2</sub>-9; 1,3-pentanediol, 2-ethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 2-ethyl- (C7) n-BO<sub>1</sub>-3; 1,3-pentanediol, 2-methyl- (C6) 2(Me-E<sub>1</sub>-6); 1,3-pentanediol, 2-methyl- (C6) PO<sub>2</sub>-3; 1,3-pentanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,3-pentanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 3,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pentanediol, 3-methyl- (C6) (Me-E<sub>1</sub>-6); 1,3-pentanediol, 3-methyl- (C6) PO<sub>2</sub>-3; 1,3-pentanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,3-pentanediol, 4,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,3-pentanediol, 4,4-dimethyl- (C7) PO<sub>1</sub>; 1,3-pentanediol, 4,4-dimethyl- (C7) n-BO<sub>2</sub>-4; 1,3-pentanediol, 4-methyl- (C6) (Me-E<sub>1</sub>-6); 1,3-pentanediol, 4-methyl- (C6) PO<sub>2</sub>-3;

1,3-pentanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,4-pentanediol, (C5) 2(Me-E<sub>1-2</sub>); 1,4-pentanediol (C5) PO<sub>3-4</sub>; 1,4-pentanediol, 2,2-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pentanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pentanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pentanediol, 2,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pentanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pentanediol, 2,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pentanediol, 2-methyl- (C6) (Me-E<sub>1-6</sub>); 1,4-pentanediol, 2-methyl- (C6) PO<sub>2-3</sub>; 1,4-pentanediol, 2-methyl- (C6) BO<sub>1</sub>; 1,4-pentanediol, 3,3-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pentanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,4-pentanediol, 3,3-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pentanediol, 3,4-dimethyl- (C7) (Me-E<sub>1</sub>); 1,4-pentanediol, 3,4-dimethyl- (C7) PO<sub>1</sub>; 1,4-pentanediol, 3,4-dimethyl- (C7) n-BO<sub>2-4</sub>; 1,4-pentanediol, 3-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,4-pentanediol, 3-methyl- (C6) PO<sub>2-3</sub>; 1,4-pentanediol, 3-methyl- (C6) BO<sub>1</sub>; 1,4-pentanediol, 4-methyl- (C6) 2(Me-E<sub>1-6</sub>); 1,4-pentanediol, 4-methyl- (C6) PO<sub>2-3</sub>; 1,4-pentanediol, 4-methyl- (C6) BO<sub>1</sub>; 1,5-pentanediol, (C5) (Me-E<sub>4-10</sub>); 1,5-pentanediol (C5) 2(Me-E<sub>1</sub>); 1,5-pentanediol (C5) PO<sub>3</sub>; 1,5-pentanediol, 2,2-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pentanediol, 2,2-dimethyl- (C7) PO<sub>1</sub>; 1,5-pentanediol, 2,2-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pentanediol, 2,3-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pentanediol, 2,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pentanediol, 2,3-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pentanediol, 2,4-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pentanediol, 2,4-dimethyl- (C7) PO<sub>1</sub>; 1,5-pentanediol, 2,4-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pentanediol, 2-ethyl- (C7) E<sub>1-5</sub>; 1,5-pentanediol, 2-ethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pentanediol, 2-methyl- (C6) (Me-E<sub>1-4</sub>); 1,5-pentanediol, 2-methyl- (C6) PO<sub>2</sub>; 1,5-pentanediol, 3,3-dimethyl- (C7) E<sub>1-7</sub>; 1,5-pentanediol, 3,3-dimethyl- (C7) PO<sub>1</sub>; 1,5-pentanediol, 3,3-dimethyl- (C7) n-BO<sub>1-2</sub>; 1,5-pentanediol, 3-methyl- (C6) (Me-E<sub>1-4</sub>); 1,5-pentanediol, 3-methyl- (C6) PO<sub>2</sub>; 2,3-pentanediol, (C5) (Me-E<sub>1-3</sub>); 2,3-pentanediol, (C5) PO<sub>2</sub>; 2,3-pentanediol, 2-methyl- (C6) E<sub>1-7</sub>; 2,3-pentanediol, 2-methyl- (C6) PO<sub>1</sub>; 2,3-pentanediol, 2-methyl- (C6) n-BO<sub>1-2</sub>; 2,3-pentanediol, 3-methyl- (C6) E<sub>1-7</sub>; 2,3-pentanediol, 3-methyl- (C6) PO<sub>1</sub>; 2,3-pentanediol, 3-methyl- (C6) n-BO<sub>1-2</sub>; 2,4-pentanediol, (C5) 2(Me-E<sub>1-4</sub>); 2,4-pentanediol (C5) PO<sub>4</sub>; 2,4-pentanediol, 2,3-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 2,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 2,4-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 2,4-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 2-methyl- (C7) (Me-E<sub>5-10</sub>); 2,4-pentanediol, 2-methyl- (C7) PO<sub>3</sub>; 2,4-pentanediol, 3,3-dimethyl- (C7) (Me-E<sub>1-4</sub>); 2,4-pentanediol, 3,3-dimethyl- (C7) PO<sub>2</sub>; 2,4-pentanediol, 3-methyl- (C6) (Me-E<sub>5-10</sub>); 2,4-pentanediol, 3-methyl- (C6) PO<sub>3</sub>;

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4. 1,3-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,3-hexanediol (C6) PO<sub>2</sub>; 1,3-hexanediol (C6) BO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 2-methyl- (C7) BO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,3-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,3-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,3-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,4-hexanediol (C6) PO<sub>2</sub>; 1,4-hexanediol (C6) BO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,4-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,4-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,4-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol (C6) (Me-E<sub>1-5</sub>); 1,5-hexanediol (C6) PO<sub>2</sub>; 1,5-hexanediol (C6) BO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 2-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 2-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 3-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 3-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 3-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 4-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 4-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 4-methyl- (C7) n-BO<sub>1-3</sub>; 1,5-hexanediol, 5-methyl- (C7) E<sub>2-9</sub>; 1,5-hexanediol, 5-methyl- (C7) PO<sub>1</sub>; 1,5-hexanediol, 5-methyl- (C7) n-BO<sub>1-3</sub>; 1,6-hexanediol (C6) (Me-E<sub>1-2</sub>); 1,6-hexanediol (C6) PO<sub>1-2</sub>; 1,6-hexanediol (C6) n-BO<sub>4</sub>; 1,6-hexanediol, 2-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 2-methyl- (C7) n-BO<sub>1-2</sub>; 1,6-hexanediol, 3-methyl- (C7) E<sub>1-5</sub>; 1,6-hexanediol, 3-methyl- (C7) n-BO<sub>1-2</sub>; 2,3-hexanediol (C6) E<sub>1-5</sub>; 2,3-hexanediol (C6) n-BO<sub>1</sub>; 2,3-hexanediol (C6) BO<sub>1</sub>; 2,4-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,4-hexanediol (C6) PO<sub>3</sub>; 2,4-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 4-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 4-methyl- (C7) PO<sub>1-2</sub>; 2,4-hexanediol, 5-methyl- (C7) (Me-E<sub>1-2</sub>); 2,4-hexanediol 5-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol (C6) (Me-E<sub>3-8</sub>); 2,5-hexanediol (C6) PO<sub>3</sub>; 2,5-hexanediol, 2-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 2-methyl- (C7) PO<sub>1-2</sub>; 2,5-hexanediol, 3-methyl- (C7) (Me-E<sub>1-2</sub>); 2,5-hexanediol 3-methyl- (C7) PO<sub>1-2</sub>; 3,4-hexanediol (C6) EO<sub>1-5</sub>; 3,4-hexanediol (C6) n-BO<sub>1</sub>; 3,4-hexanediol (C6) BO<sub>1</sub>;

5. 1,3-heptanediol (C7) E<sub>1-7</sub>; 1,3-heptanediol (C7) PO<sub>1</sub>; 1,3-heptanediol (C7) n-BO<sub>1-2</sub>; 1,4-heptanediol (C7) E<sub>1-7</sub>; 1,4-heptanediol (C7) PO<sub>1</sub>; 1,4-heptanediol (C7) n-BO<sub>1-2</sub>; 1,5-heptanediol (C7) E<sub>1-7</sub>; 1,5-heptanediol (C7)

PO<sub>1</sub>; 1,5-heptanediol (C7) n-BO<sub>1-2</sub>; 1,6-heptanediol (C7) E<sub>1-7</sub>; 1,6-heptanediol (C7) PO<sub>1</sub>; 1,6-heptanediol (C7) n-BO<sub>1-2</sub>; 1,7-heptanediol (C7) E<sub>1-2</sub>; 1,7-heptanediol (C7) n-BO<sub>1</sub>; 2,4-heptanediol (C7) E<sub>3-10</sub>; 2,4-heptanediol (C7) (Me-E<sub>1</sub>); 2,4-heptanediol (C7) PO<sub>1</sub>; 2,4-heptanediol (C7) n-BO<sub>3</sub>; 2,5-heptanediol (C7) E<sub>3-10</sub>; 2,5-heptanediol (C7) (Me-E<sub>1</sub>); 2,5-heptanediol (C7) PO<sub>1</sub>; 2,5-heptanediol (C7) n-BO<sub>3</sub>; 2,6-heptanediol (C7) E<sub>3-10</sub>; 2,6-heptanediol (C7) (Me-E<sub>1</sub>); 2,6-heptanediol (C7) PO<sub>1</sub>; 2,6-heptanediol (C7) n-BO<sub>3</sub>; 3,5-heptanediol (C7) E<sub>3-10</sub>; 3,5-heptanediol (C7) (Me-E<sub>1</sub>); 3,5-heptanediol (C7) PO<sub>1</sub>; 3,5-heptanediol (C7) n-BO<sub>3</sub>;

6. 1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO<sub>1</sub>; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO<sub>1</sub>; 1,3-butanediol, 2,2-diethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,4-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) E<sub>2-5</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) E<sub>2-5</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 2,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,5-hexanediol, 3,4-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 2,4-hexanediol, 5,5-dimethyl- (C8) n-BO<sub>1-2</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) n-BO<sub>1</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 2,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,3-pentanediol, 3,4,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 2,2,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 2,2,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 2,3,3-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 1,4-pentanediol, 3,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-pentanediol, 2,3,4-trimethyl- (C8) n-BO<sub>1</sub>; 2,4-hexanediol, 4-ethyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,4-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 3-

methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 5-methyl- (C8) n-BO<sub>1</sub>; 2,5-heptanediol, 6-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 3-methyl- (C8) n-BO<sub>1</sub>; 2,6-heptanediol, 4-methyl- (C8) n-BO<sub>1</sub>; 3,5-heptanediol, 2-methyl- (C8) n-BO<sub>1</sub>; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) E<sub>1-3</sub>; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,4-butanediol, 3-methyl-2-isopropyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,3-pantanediol, 3,4,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,2,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,3-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 1,4-pantanediol, 3,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-pantanediol, 2,3,4-trimethyl- (C8) E<sub>1-3</sub>; 2,4-hexanediol, 4-ethyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,4-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 5-methyl- (C8) E<sub>1-3</sub>; 2,5-heptanediol, 6-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 3-methyl- (C8) E<sub>1-3</sub>; 2,6-heptanediol, 4-methyl- (C8) E<sub>1-3</sub>; and/or 3,5-heptanediol, 2-methyl- (C8) E<sub>1-3</sub>; and

7. mixtures thereof;

IX. aromatic diols including: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; 2-phenyl-1,4-butanediol; and/or 1-phenyl-2,3-butanediol;

X. solvents which have a ClogP value of from about 0.15 to about 0.64 and are homologs, or analogs, of the above structures where one, or more, CH<sub>2</sub> groups are added while, for each CH<sub>2</sub> group added, two hydrogen atoms are removed from adjacent carbon atoms in the molecule to form one carbon-carbon double bond, thus holding the number of hydrogen atoms in the molecule constant, including the following:

1,3-Propanediol, 2,2-di-2-propenyl-; 1,3-Propanediol, 2-(1-pentenyl)-; 1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 1,3-Propanediol, 2-(4-pentenyl)-; 1,3-Propanediol, 2-ethyl-2-(2-methyl-2-propenyl)-; 1,3-Propanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Propanediol, 2-methyl-2-(3-methyl-3-butenyl)-; 1,3-Butanediol, 2,2-diallyl-; 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 1,3-Butanediol, 2-(2-butenyl)-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-

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butenyl)-; 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 1,4-Butanediol, 2,3-bis(1-methylethylidene)-; 1,4-Butanediol, 2-(3-methyl-2-butenyl)-3-methylene-; 2-Butene-1,4-diol, 2-(1,1-dimethylpropyl)-; 2-Butene-1,4-diol, 2-(1-methylpropyl)-; 2-Butene-1,4-diol, 2-butyl-; 1,3-Pantanediol, 2-ethenyl-3-ethyl-; 1,3-Pantanediol, 2-ethenyl-4,4-dimethyl-; 1,4-Pantanediol, 3-methyl-2-(2-propenyl)-; 1,5-Pantanediol, 2-(1-propenyl)-; 1,5-Pantanediol, 2-(2-propenyl)-; 1,5-Pantanediol, 2-ethylidene-3-methyl-; 1,5-Pantanediol, 2-propylidene-; 2,4-Pantanediol, 3-ethylidene-2,4-dimethyl-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 4-Pentene-1,3-diol, 2-ethyl-2,3-dimethyl-; 1,4-Hexanediol, 4-ethyl-2-methylene-; 1,5-Hexadiene-3,4-diol, 2,3,5-trimethyl-; 1,5-Hexadiene-3,4-diol, 5-ethyl-3-methyl-; 1,5-Hexanediol, 2-(1-methylethyl)-; 1,6-Hexanediol, 2-ethenyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 2-Hexene-1,5-diol, 4-ethenyl-2,5-dimethyl-; 3-Hexene-1,6-diol, 2-ethenyl-2,5-dimethyl-; 3-Hexene-1,6-diol, 2-ethyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-1,3-diol, 3-(2-propenyl)-; 5-Hexene-2,3-diol, 2,3-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,5-dimethyl-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 1,4-Heptanediol, 6-methyl-5-methylene-; 1,5-Heptadiene-3,4-diol, 2,3-dimethyl-; 1,5-Heptadiene-3,4-diol, 2,5-dimethyl-; 1,5-Heptadiene-3,4-diol, 3,5-dimethyl-; 1,7-Heptanediol, 2,6-bis(methylene)-; 1,7-Heptanediol, 4-methylene-; 1-Heptene-3,5-diol, 2,4-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 3-ethenyl-5-methyl-; 1-Heptene-3,5-diol, 6,6-dimethyl-, 2,4-Heptadiene-2,6-diol, 4,6-dimethyl-; 2,5-Heptadiene-1,7-diol, 4,4-dimethyl-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 2-Heptene-1,7-diol, 2-methyl-; 3-Heptene-1,5-diol, 4,6-dimethyl-; 3-Heptene-1,7-diol, 3-methyl-6-methylene-; 3-Heptene-2,5-diol, 2,4-dimethyl-; 3-Heptene-2,5-diol, 2,5-dimethyl-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 3-Heptene-2,6-diol, 4,6-dimethyl-; 5-Heptene-1,3-diol, 2,4-dimethyl-; 5-Heptene-1,3-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2,6-dimethyl-; 5-Heptene-1,4-diol, 3,6-dimethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 6-Heptene-1,3-diol, 2,2-dimethyl-; 6-Heptene-1,4-diol, 4-(2-propenyl)-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,5-diol, 2,4-dimethyl-; 6-Heptene-1,5-diol, 2-ethylidene-6-methyl-; 6-Heptene-2,4-diol, 4-(2-propenyl)-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 6-Heptene-2,5-diol, 5-ethenyl-4-methyl-; 1,3-Octanediol, 2-methylene-; 1,6-Octadiene-3,5-diol, 2,6-dimethyl-; 1,6-Octadiene-3,5-diol, 3,7-dimethyl-; 1,7-Octadiene-3,6-diol, 2,6-dimethyl-; 1,7-Octadiene-3,6-diol, 2,7-dimethyl-; 1,7-Octadiene-3,6-diol, 3,6-dimethyl-; 1-Octene-3,6-diol, 3-ethenyl-; 2,4,6-Octatriene-1,8-diol, 2,7-dimethyl-; 2,4-Octadiene-1,7-diol,

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3,7-dimethyl-; 2,5-Octadiene-1,7-diol, 2,6-dimethyl-; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridol); 2,6-Octadiene-1,8-diol, 2-methyl-; 2,7-Octadiene-1,4-diol, 3,7-dimethyl-; 2,7-Octadiene-1,5-diol, 2,6-dimethyl-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinalool); 2,7-Octadiene-1,6-diol, 2,7-dimethyl-; 2-Octene-1,4-diol; 2-Octene-1,7-diol, 2-methyl-6-methylene-; 3,5-Octadiene-1,7-diol, 3,7-dimethyl-; 3,5-Octadiene-2,7-diol, 2,7-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,7-Octadiene-1,6-diol, 2,6-dimethyl-; 3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 3-Octene-1,5-diol, 4-methyl-; 3-Octene-1,5-diol, 5-methyl-; 4,6-Octadiene-1,3-diol, 2,2-dimethyl-; 4,7-Octadiene-2,3-diol, 2,6-dimethyl-; 4,7-Octadiene-2,6-diol, 2,6-dimethyl-; 4-Octene-1,6-diol, 7-methyl-; 2,7-bis(methylene)-; 2-methylene-; 5,7-Octadiene-1,4-diol, 2,7-dimethyl-; 5,7-Octadiene-1,4-diol, 7-methyl-; 5-Octene-1,3-diol; 6-Octene-1,3-diol, 7-methyl-; 6-Octene-1,4-diol, 7-methyl-; 6-Octene-1,5-diol, 6-Octene-1,5-diol, 7-methyl-; 6-Octene-3,5-diol, 2-methyl-; 6-Octene-3,5-diol, 4-methyl-; 7-Octene-1,3-diol, 7-methyl-; 7-Octene-1,5-diol; 7-Octene-1,6-diol, 7-Octene-1,6-diol, 5-methyl-; 7-Octene-2,4-diol, 2-methyl-6-methylene-; 7-Octene-2,5-diol, 7-methyl-; 7-Octene-3,5-diol, 2-methyl-; 1-Nonene-3,5-diol; 1-Nonene-3,7-diol; 3-Nonene-2,5-diol; 4,6-Nonadiene-1,3-diol, 8-methyl-; 4-Nonene-2,8-diol; 6,8-Nonadiene-1,5-diol; 7-Nonene-2,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,5-diol; 1,9-Decadiene-3,8-diol; and/or 1,9-Decadiene-4,6-diol; and

XI. mixtures thereof, said principal solvent containing insufficient amounts of solvents selected from the group consisting of: 2,2,4-trimethyl-1,3-pentane diol; the ethoxylate, diethoxylate, or triethoxylate derivatives of 2,2,4-trimethyl-1,3-pentane diol; and/or 2-ethylhexyl-1,3-diol, to provide an aqueous stable product;

C. optionally, but preferably, an effective amount, sufficient to improve clarity, of low molecular weight water soluble solvents like ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate, etc., said water soluble solvents being at a level that will not form clear compositions by themselves;

D. optionally, but preferably, an effective amount to improve clarity, of water soluble calcium and/or magnesium salt, preferably chloride; and

E. the balance being water.

52. A composition according to Claim 51 wherein said principal solvent B. is present at an effective amount, but less than the amount required to achieve stability and the composition is made stable by addition of another solvent that is itself inoperable to achieve stability.

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53. The process of making a clear fabric softening composition using the premix of Claim 47 and adding said premix to a water seal comprising water, acid to create a pH of from about 1.5 to about 5; and, optionally, an effective amount of water soluble calcium and/or magnesium salt.

54. The process of making a solvent mixture of Claim 6 comprising the condensation of butyraldehyde, isobutyraldehyde and/or methyl ethyl ketone (2-butanone), so long as the level of butyraldehyde, or isobutyraldehyde is less than about 95% of the reaction mixture, in the presence of highly alkaline catalyst followed by conversion by hydrogenation.

55. The process of Claim 54 wherein the level of butyraldehyde, or isobutyraldehyde is less than about 85% of the reaction mixture.

56. The process of Claim 54 wherein the level of butyraldehyde, or isobutyraldehyde is less than about 80% of the reaction mixture.

57. The mixture prepared by the process of Claim 54.